

\*433SERBSF10,627\*

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Site Name (Subject): SUPREME FINISHING

Site ID (Document ID): NCD986188878

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Division: WASTE MANAGEMENT

Section: SUPERFUND

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REMEDIAL SITE ASSESSMENT DECISION - EPA REGION IV

NC

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JAN 11 1996

SUPERFUND SECTION

Site Name: Supreme Finishing

EPA ID#: NCD 986 188 878

Alias Site Names: \_\_\_\_\_

City: Durham

County or Parish: Durham

State: NC

Refer to Report Dated: September 1995

Report type: Site Inspection

Report developed by: Irene Williams / NCDEHNR

**DECISION:**

1. Further Remedial Site Assessment under CERCLA (Superfund) is not required because:

1a. Site does not qualify for further remedial site assessment under CERCLA  
(No Further Remedial Action Planned - NFRAP)

1b. Site may qualify for further action, but is deferred to:  RCRA  NRC

2. Further Assessment Needed Under CERCLA: 2a. (optional) Priority:  Higher  Lower

2b. Activity Type:  PA  ESI  
 SI  HRS evaluation

Other: \_\_\_\_\_

**DISCUSSION/RATIONALE:** Due to a lack of targets and observed releases to groundwater and surface water pathways, this site is not a threat to human health and the environment. This site was assigned a disposition of No Further Action.

Report Reviewed and Approved by: Cynthia K. Gurley Signature: Cynthia Gurley Date: 12/21/95

Site Decision Made by: Cynthia K. Gurley Signature: Cynthia Gurley Date: 12/21/95



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

RECEIVED

JAN 11 1996

SUPERFUND SECTION

January 9, 1996

Ms. Pat DeRosa, Head  
CERCLA Branch  
North Carolina Department of Environment,  
Health and Natural Resources  
Division of Solid Waste Management  
P.O. Box 27687  
Raleigh, North Carolina 27611-7687

Dear Ms. DeRosa:

The following reports have recently been reviewed and accepted by EPA - Region IV Site Assessment Section:

Site Inspections (SIs)

Crestline Contaminated Wells Moore County NCD 986 172 492	No Further Remedial Action Planned (NFRAP)
Furnace Road Abandoned Drums Lincoln County NCD 981 929 367	NFRAP
Glen Raven Mills Cleveland County NCD 986 175 651	NFRAP
Piot Mountain Tire Fire Surry County NCD 986 166 379	NFRAP
Supreme Finishing Durham County NCD 986 188 878	NFRAP

Site Inspection Prioritizations (SIPs)

Carolawn Company Forsyth County NCD 980 729 479	NFRAP
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Carolina Tank Cleaning Guilford County NCD 980 729 412	NFRAP
Chemical Leaman Tank Lines Guilford County NCD 043 711 977	NFRAP
Cranston Print Works Henderson County NCD 003 150 539	NFRAP
Georgia-Pacific Corporation Columbus County NCD 000 813 600	NFRAP
Monsanto Company Cumberland County NCD 088 563 242	Further Action
New Hanover Cty & Carolina Beach Ldfs New Hanover County NCD 990 715 070	NFRAP
R.J. Reynolds Stokes County NCD 980 250 450	NFRAP

Enclosed please find the Remedial Site Assessment Decision Forms for each report generated by the North Carolina Superfund program and a copy of the actual report generated by the EPA Contractor. In addition, I have included a copy of the RCRA List, Potential NFRAP List, T-List, Site Status Report and a memorandum concerning the Prescore 4.0 program.

If you have any questions concerning these site decisions, please call me at (404) 347-7791, Extension 2031.

Sincerely,

*Cynthia K. Gurley*  
Cynthia K. Gurley  
North Carolina, PO

May 30, 1995

TO: Larry Perry

FROM: Irene Williams, Environmental Chemist *Irene Williams*  
N.C. Superfund Section

RE: Supreme Finishing (NCD 986 188 878)  
Recent questions regarding the site

Please see the attached memo and let's discuss this site again. We have conducted a Site Inspection and the report is in progress but will be delayed since I shall be away on medical leave from approximately June 8-July 10, 1995.

Do you know if the property still belongs to the Holloways, or to the city? Maybe you can save me some calls to local government agencies if you have information or contact names, etc.

My new extension is 279 and my new location is where Bruce Nicholson had been located. Please call or come down to discuss. Thanks!

May 30, 1995

TO: File

FROM: Irene Williams, Environmental Chemist *Irene Williams*  
N.C. Superfund Section

RE: Supreme Finishing (NCD 986 188 878)  
Teleconference with Ms. Yvonne Overton concerning  
recent activities regarding the site

On May 26, 1995, I returned a call from Ms. Yvonne Overton, 596-2890, in response to a message she had left concerning the site. Ms. Overton lives near the site on Ross Road. She reported that someone from Supreme Finishing, perhaps the owner's son, was out on the site "measuring Windows" recently. She said she was under the impression that Supreme Finishing was bankrupt and that the building was to be condemned. I left Ms. Overton a message to call me back.

On today's date I spoke with Ms. Overton pursuant to the above message. I told her a report on the site is in process. She reported that she has seen the Holloways (former or present owners) working on the site, removing tin from the roof, carrying away debris, and measuring windows and doors as if to prepare the facility for a new owner or in order to re-open a business there. She expressed her concern about the bankruptcy and current ownership of the property. She mentioned that the house adjacent to the site had already been auctioned by the city.

SITE HEALTH AND SAFETY PLAN

A. General Information

Site Name Supreme Finishing ID # NCD 986 188 878  
Location 3033 Ross Road, Durham, Durham County,  
NC

Proposed Date of Investigation August 2, 1994  
Date of Briefing August 1, 1994  
Date of Debriefing August 3, 1994

Nature of Visit (check one): On-Site Reconnaissance \_\_\_\_\_  
Off-Site Reconnaissance \_\_\_\_\_  
Sampling X \_\_\_\_\_  
Sampling Overview \_\_\_\_\_  
Remediation Overview \_\_\_\_\_

Health Department Official Contacted Ms. Sandy McFall for John Upton  
Date of Contact July 19, 1994

Site Investigation Team: All site personnel have read the Site Health and Safety Plan and are familiar with its provisions.

	<u>Personnel</u>	<u>Responsibilities</u>	<u>Signature</u>
Team 1	<u>Irene Williams</u>	<u>team leader, sampling</u>	<u>Irene Williams</u>
Team 1	<u>Bob Gandley</u>	<u>sampling</u>	<u>Bob Gandley</u>
Team 1	<u>David Lilley</u>	<u>health and safety</u>	<u>David Lilley</u>
Team 2	<u>Harry Zinn</u>	<u>sampling</u>	<u>Harry Zinn</u>
Team 2	<u>Jeanette Stanley</u>	<u>sampling</u>	<u>Jeanette Stanley</u>

Plan Preparation:

Prepared By: David Lilley, Industrial Hygiene Consultant  
Reviewed By: Jack Butler, Environmental Engineering Supervisor

**B. SITE/WASTE CHARACTERISTICS**

Waste Type(s)  Liquid  Solid  Sludge  Gas  Vapor  
 Characteristics  Corrosive  Ignitable  Radioactive  
 Volatile  Toxic  Reactive  Other

List Known or Suspected Hazards (physical, chemical biological or radioactive) on Site and their toxicological effects. Also, if known, list chemical amounts

HAZARD	WARNING PROPERTIES	EXPOSURE LIMIT
<u>Cadmium</u>	<u>Odor Threshold (OT) = no data</u>	<u>0.01 mg/m<sup>3</sup></u>
<u>Chromium</u>	<u>OT = no data</u>	<u>0.05 mg/m<sup>3</sup></u>
<u>Lead</u>	<u>OT = no data</u>	<u>0.05 mg/m<sup>3</sup></u>
<u>PAHs</u>	<u>vary according to compound, many are carcinogenic-indicators listed below</u>	<u>varies</u>
<u>Pyrene (noncarcinogenic)</u>	<u>OT = no data</u>	<u>no data</u>
<u>Benzo[alpyrene (carcinogenic)</u>	<u>OT = no data PEL=</u>	<u>0.2mg/m<sup>3</sup></u>
<u>Toluene</u>	<u>OT = 0.17 - 40 ppm</u>	<u>50 ppm</u>
<u>Xylene</u>	<u>OT = 0.05 - 200 ppm</u>	<u>100 ppm</u>
<u>Ethyl Benzene</u>	<u>OT = 0.25 - 200 ppm</u>	<u>100 ppm</u>
<u>Methyl Isobutyl Ketone</u>	<u>OT = 0.1 - 47 ppm</u>	<u>50 ppm</u>

**UNDERGROUND UTILITIES CHECKLIST**

<u>Utility</u>	<u>Locator/Contact Person</u>	<u>Phone #</u>	<u>Date of Location</u>
Power	<u>NA</u>	<u>                    </u>	<u>                    </u>
Telephone	<u>NA</u>	<u>                    </u>	<u>                    </u>
Gas	<u>NA</u>	<u>                    </u>	<u>                    </u>
Water	<u>NA</u>	<u>                    </u>	<u>                    </u>
Sewer	<u>NA</u>	<u>                    </u>	<u>                    </u>

Work Number:  
Call made by:

Facility Description: Size 1 acre Buildings yes  
Disposal Methods Being Investigated Possible leakage of drums.

Unusual Features on Site (dike integrity, power lines, terrain, etc.):  
There are hot spots existing on site which are well marked. Avoid these areas.

History of the Site: The facility is a defunct plating facility.  
Reportedly, 40-50 drums of plating waste located on the property were removed.

C. HAZARD EVALUATION

The site can be toured and sampled in level D protection. PE or PVC gloves will be worn while collecting water and sediment samples, PE or PVC gloves over nitrile gloves will be worn while collecting surface soil samples. Steel toes work boots will be worn while conducting tour and sampling. Tyvek suits (saranex in wet conditions) are recommended to keep clothing clean.

D. WORK PLAN INSTRUCTION

Map or Sketch Attached? yes  
Perimeter Identified? no  
Command Post Identified? no  
Zones of Contamination Identified? no

Personal Protective Equipment/Level of Protection:      C   X   D

Modifications Wear goggles, face shield, and PVC gloves while preparing acid preserved samples, goggles and PVC gloves while collecting acid preserved samples. Avoid breathing acid vapors.

Surveillance Equipment:

<u>          </u> HNU	<u>          </u> Detector Tubes and Pumps
<u>          </u> OVA	<u>          </u> O2 Meter
<u>          </u> Explosimeter	<u>          </u> Radiation Monitor

Decontamination Procedures

           Level C    Respirator wash, respirator removal, suit wash (if needed),  
                          suit removal, boot wash, boot removal and glove removal.

  X   Level D    Boot wash and rinse and boot removal, suit removal, glove  
                          and goggle removal.

Modifications   Dispose of trash properly, on-site if possible.  

Work Schedule/Visit Objectives   The purpose of this visit is to determine  
  if the site poses a threat to the public health or environment because of  
  releases of contaminants to soil, surface water, groundwater, or air.  
  Sampling may consist of surface soil, sediment, surface water, and drinking  
  water well samples.

EMERGENCY PRECAUTIONS

<u>Route of Exposure</u>	<u>First Aid</u>
<u>Eyes</u>	<u>irrigate immediately</u>
<u>Skin</u>	<u>soap and water wash</u>
<u>Inhalation</u>	<u>fresh air and artificial respiration</u>
<u>Ingestion</u>	<u>get medical attention immediately</u>

ID # NCD 986 188 878

Location of Nearest Phone: unknown (nearby businesses/residences?)

Hospital (Address and Phone Number)

Duke University Hospital, Erwin Road, PO Box 3708, Durham NC 27710  
(919) 684-8111

Emergency Transportation Systems (Phone Numbers)

Fire 911

Ambulance 911

Rescue Squad 911

Emergency Route to Hospital Take a right onto Chandler Road, then right  
onto Holloway Street. Take Holloway St. to Alston Ave., turn left and go  
to Route 147 and go north. Take the hospital exit off 147, the hospital is  
about 8 miles from the site.

PREVAILING WEATHER CONDITIONS AND FORECAST Partly cloudy with a chance of  
rain, highs in the 90s.

**EQUIPMENT CHECKLIST**

<u>      </u> Air purifying respirator	<u>  X  </u> First Aid Kit
<u>      </u> Cartridges for respirator	<u>  X  </u> 3 gal. Deionized H2O
<u>  X  </u> Eye Wash Unit	<u>  X  </u> Rainsuit
<u>      </u> HNU	<u>  X  </u> Gloves ( <u>PE/PVC/nitrile/cloth</u> )
<u>      </u> OVA	<u>  X  </u> Boots/Boot Covers
<u>      </u> Explosimeter	<u>  X  </u> Coveralls ( <u>tyvek/saranex</u> )
<u>      </u> Radiation Monitor	<u>  X  </u> Eye Protection ( <u>goggles/shield</u> )
<u>  X  </u> Decontamination Materials	<u>  X  </u> Hard Hat

Poison Control Center - State Coordinator  
Duke University Medical Center  
Telephone: 1-800-672-1697  
Box 3024  
Durham, NC 27710

ASHEVILLE 704-255-4490	Western NC Poison Control Center Memorial Mission Hosp. 509 Biltmore Ave. 28801	HENDERSONVILLE 704-693-6522 Ext. 555,556	Margaret R. Pardee Memorial Hospital Fleming St., 28739
CHARLOTTE 704-379-5827	Mercy Hospital 2001 Vail Ave, 28207	HICKORY 704-322-6649	Catawba Mem. Hosp. Fairgrove Chur. Rd 28601
DURHAM 1-800-672-1697	Duke Univ. Med. Center Box 3007, 27710	JACKSONVILLE 919-577-2555	Onslow Mem. Hospital Western Blvd. 28540
GREENSBORO 919-379-4105	Moses Cone Hospital 1200 N. Elm St. 27420	WILMINGTON 919-343-7046	New Hanover Mem. Hospital 2131 S. 17th St. 28401

safeform.216a



Area covered by map of Downtown Durham above

OS 12

Map labels include street names (e.g., Carver St, Duke St, Holloway St, Main St, University St, Lenoir St, Fayette St, Beaufort St, Johnston St, Tryon St, South St, North St, East St, West St, etc.), landmarks (e.g., Rock Quarry Park, Glendale Hill, North Gate, Duke University East Campus, Waddell Stadium, etc.), and highway markers (e.g., I-85, I-77, I-95, US-1, US-52, etc.).

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Cadmium dust (as Cd)

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>Cd</u>	<u>1</u>
Natural Physical State at 25°C <u>solid</u>	<u>1</u>
Vapor Pressure <u>N/A</u> mm Hg at 20°C	<u></u>
Melting Point <u></u> °F/°C Boiling Point <u></u> °F/°C	<u></u>
Flash Point (open or closed cup) <u>N/A</u> °C/°F	<u></u>
Solubility - H <sub>2</sub> O <u>not soluble</u>	<u>1</u>
Other <u></u>	<u></u>

Physical Features: (odor, color, etc.) appearance and odor vary for  
specific compound.

II. TOXICOLOGICAL DATA

Standards: 0.01 mg/m<sup>3</sup>(2) TLV 0.2 mg/m<sup>3</sup>(3) PEL potential IDLH 4  
carcinogen

Routes of Exposure: Inhalation and ingestion, skin contact, eye contact

Acute/Chronic Symptoms: cough, tight chest, headache, chills, muscle  
aches, nausea, diarrhea. (4)

First Aid: Inhalation: artificial respiration; Ingestion: get medical  
attention immediately; Eye contact: irrigate immediately; Skin contact:  
soap and water wash immediately.



HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Chromium (VI), insoluble salts

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>varies with compound</u>	<u>1</u>
Natural Physical State at 25°C <u>solid</u>	<u>1</u>
Vapor Pressure <u>N/A</u> mm Hg at 20°C	<u></u>
Melting Point <u></u> °F/°C Boiling Point <u></u> °F/°C	<u></u>
Flash Point (open or closed cup) <u>N/A</u> °C/°F	<u></u>
Solubility - H2O <u>not soluble in water</u>	<u>1</u>
Other <u></u>	<u></u>

Physical Features: (odor, color, etc.) Properties vary depending upon specific compound. Compounds include: zinc chromate, lead chromate, calcium chromate, etc.

II. TOXICOLOGICAL DATA

Standards: 0.05 mg/m3(2) TLV      0.5mg/m3(4) PEL      500 mg/m3 IDLH 3

Routes of Exposure: Inhalation and ingestion

Acute/Chronic Symptoms: Chronic: fibrosis of the lung and epidemiological studies have shown increased incidence of lung cancer among workers in the manufacture of chrome pigments

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately



HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Lead, inorganic dusts

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>Pb</u>	<u>1</u>
Natural Physical State at 25°C <u>solid</u>	<u>1</u>
Vapor Pressure <u>N/A</u> mm Hg at 20°C	<u>1</u>
Melting Point <u>327.4</u> °F/°C Boiling Point <u>1,740</u> °F/°C	<u>1</u>
Flash Point (open or closed cup) <u>N/A</u> °C/°F	<u>        </u>
Solubility - H <sub>2</sub> O <u>N/A</u>	<u>        </u>
Other <u>N/A</u>	<u>        </u>

Physical Features: (odor, color, etc.) appearance and odor vary depending upon specific compound.

II. TOXICOLOGICAL DATA

suspected or conformed human carcinogen

Standards: .15 mg/m<sup>3</sup> (2) TLV 0.05 mg/m<sup>3</sup> (3) PEL N/A (4) IDLH

Routes of Exposure: inhalation, ingestion, eye contact, skin contact(3)

Acute/Chronic Symptoms: Acute: lassitude, pallor, constipation, abdominal pain, gingival gum line, tremors. Target organs: GI tract, CNS, kidneys, blood.(3)

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately

Chemical Name: Lead, inorganic dusts

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes  No   
Toxic by-products \_\_\_\_\_  
\_\_\_\_\_

B. Flammability LEL N/A UEL \_\_\_\_\_

C. Reactivity Hazard None \_\_\_\_\_

D. Corrosivity Hazard yes/no pH: \_\_\_\_\_

Neutralizing agent: \_\_\_\_\_

E. Radioactive Hazard		Exposure Rate	
Background	yes/no	_____	_____
Alpha particles	yes/no	_____	_____
Beta particles	yes/no	_____	_____
Gamma radiation	yes/no	_____	_____

IV. REFERENCES

- (1) The Merck Index, 11th Edition, 1989
- (2) Threshold Limit Values and Biological Exposure Indices  
for 1993-1994, ACGIH.
- (3) 29 CFR 1910.1025
- (4) Pocket Guide to Chemical Hazards, NIOSH, 1990.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Pyrene

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>C<sub>16</sub>H<sub>10</sub></u>	<u>1,2</u>
Natural Physical State at 25°C <u>solid</u>	<u>1,2</u>
Vapor Pressure _____ mm Hg at 20°C	_____
Melting Point <u>156°F/°C</u> Boiling Point <u>404°F/°C</u>	<u>1,2</u>
Flash Point (open or closed cup) _____ °C/°F	_____
Solubility - H <sub>2</sub> O <u>insoluble</u>	<u>1,2</u>
Other <u>partially soluble in organic solvents</u>	<u>1,2</u>

Physical Features: (odor, color, etc.) Colorless solid  
(impurities give a yellow color) (1,2)

II. TOXICOLOGICAL DATA

Standards: no data TLV      no data PEL      no data IDLH

Routes of Exposure: Inhalation, Ingestion, Skin absorption,  
Eye contact

Acute/Chronic Symptoms: Pyrene is carcinogenic, absorbed  
through the skin, and a skin irritant (3)

First Aid: Inhalation: artificial respiration; Ingestion: get  
medical attention immediately; Eye contact: irrigate  
immediately; Skin contact: soap and water wash immediately.

Chemical Name: Pyrene

III. HAZARDOUS CHARACTERISTICS Reference

- A. Combustibility Yes \_\_\_ No \_\_\_  
Toxic by-products When heated to combustion, pyrene 3  
emits acrid smoke and fumes
- B. Flammability LEL \_\_\_ UEL \_\_\_
- C. Reactivity Hazard \_\_\_\_\_
- D. Corrosivity Hazard yes/no pH: \_\_\_\_\_

Neutralizing agent: \_\_\_\_\_

E. Radioactive Hazard		Exposure Rate	
Background	yes/no	_____	_____
Alpha particles	yes/no	_____	_____
Beta particles	yes/no	_____	_____
Gamma radiation	yes/no	_____	_____

IV. REFERENCES

1. The Merck Index, 11th Edition, 1989.
2. The Condensed Chemical Dictionary, Hawley, 11th, Edition, 1987.
3. CAMEO computer data base developed by EPA and NOAA, 1986.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Benzo[a]pyrene

I. PHYSICAL/CHEMICAL PROPERTIES

Reference

Chemical Formula C<sub>20</sub> H<sub>12</sub> 1,2  
Natural Physical State at 25°C solid 1,2  
Vapor Pressure 1 mm Hg at 20°C 3  
Melting Point 179 °F/°C Boiling Point 310-312 °F/°C 1,2,3  
Flash Point (open or closed cup) nonflammable °C/°F 3  
Solubility - H<sub>2</sub>O insoluble in water 1,2,3  
Other slightly soluble in alcohol and 1,2  
methanol, slightly soluble in benzene, toluene, xylene.  
Physical Features: (odor, color, etc.) Yellowish crystals with  
a faint aromatic odor (1,2,3)

II. TOXICOLOGICAL DATA

Standards: TLV: suspected human carcinogen 0.2 mg/m<sup>3</sup> (5) PEL  
or ker exposure by all routes should be carefully no data IDLH  
controlled (4)

Routes of Exposure: Ingestion, Inhalation, Skin/Eye contact

Acute/Chronic Symptoms: Irritation of lungs and skin,  
bronchitis, coughing, breathing difficulty. Long-term exposure  
may affect lungs, kidneys, skin, urinary tract, reproductive  
system.

First Aid: Inhalation: artificial respiration; Ingestion: get  
medical attention immediately; Eye contact: irrigate  
immediately; Skin contact: soap and water wash immediately.

Chemical Name: Benzo[a]pyrene

III. HAZARDOUS CHARACTERISTICS Reference

A. Combustibility Yes \_\_\_ No X 3  
Toxic by-products this is a product 2  
of incomplete combustion  
B. Flammability LEL \_\_\_ UEL \_\_\_  
C. Reactivity Hazard Incompatible with strong oxidizers  
3  
D. Corrosivity Hazard yes/no pH: \_\_\_  
Neutralizing agent: \_\_\_  
E. Radioactive Hazard Exposure Rate  
Background yes/no \_\_\_  
Alpha particles yes/no \_\_\_  
Beta particles yes/no \_\_\_  
Gamma radiation yes/no \_\_\_

IV. REFERENCES

1. The Merck Index, 11th Edition, 1989.
2. The Condensed Chemical Dictionary, Hawley, 11th, Edition, 1987.
3. Chemical Safety Data Guide, The Bureau of National Affairs, 1985.
4. Threshold Limit Values and Biological Exposure Indices for 1993-1994, ACGIH
5. 29 CFR 1910.1000

## HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Toluene (Methyl benzene, toluol)

## I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>C7H8</u>	<u>1,2,3,4</u>
Natural Physical State at 25°C <u>liquid</u>	<u>1,2,3,4</u>
Vapor Pressure <u>20</u> mm Hg at 20°C	<u>3</u>
Melting Point <u>-95</u> °F/°C Boiling Point <u>110.6</u> °F/°C	<u>1,3,4</u>
Flash Point (open or closed cup) <u>40</u> °C/°F	<u>1,2,3,4</u>
Solubility - H <sub>2</sub> O <u>slightly soluble</u>	<u>1,3,4</u>
Other <u>miscible with alcohol, chloroform,</u>	<u>1,3,4</u>
<u>ether, acetone, glacial acetic acid, carbon disulfide</u>	

Physical Features: (odor, color, etc.) colorless liquid with an  
aromatic odor, IP 8.82 eV, (3) derived from coal tar oil or petroleum  
 Relative response on HNU = 10

## II. TOXICOLOGICAL DATA

Standards: 50 ppm (5) TLV 100 ppm (6) PEL 2000 ppm IDLH 4Routes of Exposure: inhalation; ingestion, skin contact, eye contactAcute/Chronic Symptoms: Narcotic in high concentrations, headache, lassitude,  
and nausea. Chronic: anemia and dermatitis. (2)First Aid: Inhalation: artificial respiration; Ingestion: get medical  
attention immediately; Eye contact: irrigate immediately; Skin contact:  
soap and water wash immediately

Chemical Name: Toluene

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes X No      4  
Toxic by-products                                            
     

B. Flammability LEL 1.0% UEL 7.0% 4

C. Reactivity Hazard strong oxidizers 3

D. Corrosivity Hazard yes/no pH:                      

Neutralizing agent:      

E. Radioactive Hazard		Exposure Rate	
Background	yes/ <u>no</u>	<u>                    </u>	<u>                    </u>
Alpha particles	yes/ <u>no</u>	<u>                    </u>	<u>                    </u>
Beta particles	yes/ <u>no</u>	<u>                    </u>	<u>                    </u>
Gamma radiation	yes/ <u>no</u>	<u>                    </u>	<u>                    </u>

IV. REFERENCES

- (1) The Merck Index, 11th Edition, 1989
- (2) Documentation of the TLV, 4th Edition, 1980
- (3) NIOSH Pocket Guide for Chemical Hazards, 1990
- (4) NEPA, Protection Guide on Hazardous Materials, 8th Edition, 1984
- (5) Threshold Limit Values and Biological Exposure Indices for 1993-1994.
- (6) 29 CFR 1910.1000

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Xylene, O, M, & P (Dimethyl benzene)

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>C8 H10</u>	<u>1</u>
Natural Physical State at 25°C <u>liquid</u>	<u>1</u>
Vapor Pressure <u>7-9</u> mm Hg at 20°C	<u>1</u>
Melting Point <u>13-14</u> °F/°C Boiling Point <u>137-140</u> °F/°C	<u>1</u>
Flash Point (open or closed cup) <u>90/84/81</u> °C/°F	<u>1</u>
Solubility - H <sub>2</sub> O <u>insoluble</u>	<u>1</u>
Other <u>soluble in alcohol, ether and most</u>	<u>1</u>
<u>other organic solvents.</u>	

Physical Features: (odor, color, etc.) colorless liquid with aromatic/ benzene odor. Common solvent for paints and coatings. IP = 8.5 eV.  
HNU relative response with 10.2 eV probe = 11.3, OVA relative response = 111 - 116%

II. TOXICOLOGICAL DATA

Standards: 100 ppm (2) TLV    100 ppm (3) PEL    1,000 ppm (4) IDLH

Routes of Exposure: Inhalation, Ingestion, Skin and/or Eye contact

Acute/Chronic Symptoms: headache, fatigue, dizziness, lassitude, narcotic effects in high concentrations (5,6). Chronic effects not well defined (1).

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately.

Chemical Name: Xylene, O, M, & P

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes X No      1,2,3,4  
Toxic by-products                                            
     

B. Flammability LEL 1.4% UEL 6.7% 2

C. Reactivity Hazard strong oxidizers 4

D. Corrosivity Hazard yes/no pH:                                

Neutralizing agent:                        

E. Radioactive Hazard		Exposure Rate	
Background	yes/no	<u>                    </u>	<u>                    </u>
Alpha particles	yes/no	<u>                    </u>	<u>                    </u>
Beta particles	yes/no	<u>                    </u>	<u>                    </u>
Gamma radiation	yes/no	<u>                    </u>	<u>                    </u>

IV. REFERENCES

- (1) The Merck Index, 11th Edition, 1989.
- (2) Threshold Limit Values and Biological Exposure Indices for 1993-1994.
- (3) 29 CFR 1910.1000
- (4) NIOSH Pocket Guide to Chemical Hazards, 1990.
- (5) NFPA, Fire Protection Guide on Hazardous Materials, 8th Edition, 1984.
- (6) Documentation of the TLV, 4th Edition, 1980

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Ethyl Benzene

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>C8 H10</u>	<u>1,2</u>
Natural Physical State at 25oC <u>liquid</u>	<u>1,2</u>
Vapor Pressure <u>10</u> mm Hg at 79oF	<u>2</u>
Melting Point <u>-139</u> oF/oC Boiling Point <u>277</u> oF/oC	<u>1</u>
Flash Point (open or closed cup) <u>59-64</u> oC/oF	<u>1,2</u>
Solubility - H <sub>2</sub> O <u>0.01%</u>	<u>2</u>
Other <u>miscible with usual organic solvents</u>	<u>1</u>

Physical Features: (odor, color, etc.) colorless, flammable liquid  
with an aromatic odor. IP = 8.76 eV Relative Response OVA = 100%

II. TOXICOLOGICAL DATA

Standards: 100 ppm (3) TLV 100 ppm (4) PEL 2000 ppm IDLH 2

Routes of Exposure: Inhalation, Ingestion, Skin/Eye contact

Acute/Chronic Symptoms: Irritation of the eyes and mucus membranes, headache,  
skin problems, sleepiness, coma (2)

First Aid: Inhalation: artificial respiration; Ingestion: get medical  
attention immediately; Eye contact: irrigate immediately; Skin contact:  
soap and water wash immediately

Chemical Name: Ethyl Benzene

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes X No      2  
Toxic by-products none known       
         

B. Flammability LEL 1.0% UEL 6.7% 2

C. Reactivity Hazard Strong oxidizers 2

---

D. Corrosivity Hazard yes/no pH:          

Neutralizing agent:          

E. Radioactive Hazard Exposure Rate

Background	<u>yes/no</u>	<u>    </u>	<u>    </u>
Alpha particles	<u>yes/no</u>	<u>    </u>	<u>    </u>
Beta particles	<u>yes/no</u>	<u>    </u>	<u>    </u>
Gamma radiation	<u>yes/no</u>	<u>    </u>	<u>    </u>

IV. REFERENCES

- (1) The Merck Index, 11th Edition, 1989
- (2) Pocket Guide to Chemical Hazards, NIOSH 1990
- (3) Threshold Limit Values and Biological Exposure Indices  
for 1993-94, ACGIH.
- (4) 29 CFR 1910.1000.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Methyl Isobutyl Ketone

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>C6H12O</u>	<u>1</u>
Natural Physical State at 25°C <u>liquid</u>	<u>2</u>
Vapor Pressure <u>16</u> mm Hg at 20°C	<u>3</u>
Melting Point <u>-120</u> °F/°C Boiling Point <u>242</u> °F/°C	<u>3</u>
Flash Point (open or closed cup) <u>64</u> °C/°F	<u>3</u>
Solubility - H <sub>2</sub> O <u>2%</u>	<u>3</u>
Other <u>micible with alcohol, chloroform, ether</u>	<u>1</u>

Physical Features: (odor, color, etc.) Colorless liquid with a pleasant odor (3) IP = 9.30 eV, HNU sensitivity with 10.2 eV probe = 5.7  
Relative Response on OVA = 80%

II. TOXICOLOGICAL DATA

Standards: 50ppm (4) TLV      50ppm (5) PEL      3,000ppm (3) IDLH

Routes of Exposure: Inhalation, Ingestion, Skin and/or eye contact

Acute/Chronic Symptoms: Irritation of the eyes and mucous membranes, headache, drowsiness, skin problems (4)

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Skin contact: irrigate immediately; Skin contact: soap and water wash immediately

Chemical Name: Methyl Isobutyl Ketone

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility	Yes <u>X</u> No <u>    </u>	<u>4</u>
Toxic by-products	<u>"Irritating vapors are generated when heated"</u>	<u>6</u>
B. Flammability	LEL <u>1.4%</u> UEL <u>7.5%</u>	<u>3</u>
C. Reactivity Hazard	<u>Incompatible with strong oxidizers</u>	<u>3</u>
D. Corrosivity Hazard	yes/no pH: <u>    </u>	<u>    </u>
Neutralizing agent:	<u>    </u>	<u>    </u>
E. Radioactive Hazard	Exposure Rate	
Background	yes/no <u>    </u>	<u>    </u>
Alpha particles	yes/no <u>    </u>	<u>    </u>
Beta particles	yes/no <u>    </u>	<u>    </u>
Gamma radiation	yes/no <u>    </u>	<u>    </u>

IV. REFERENCES

1. The Merck Index, 11th Edition, 1989.
2. Condensed Chemical Dictionary, Sax, 11th Edition.
3. NIOSH Pocket Guide to Chemical Hazards, 1990.
4. ACGIH Threshold Limit Values and Biological Exposure Indices for 1993-1994.
5. 29 CFR 1910.1000.
6. Chemical Hazard Response Information System, US Department of Transportation, 1985.

July 26, 1994

TO: File

FROM: Irene Williams, Environmental Chemist *Irene Williams*  
N.C. Superfund Section

RE: Supreme Finishing (NCD 986 188 878)  
Teleconference with Ms. Robinson concerning pond  
depth

On the above date I spoke with Ms. Linda Robinson, C-48 Canton Street, Durham, NC, 596-3644, concerning approximate depth of the large pond behind her house. She indicated that the pond sediment near her house where surface water drainage enters the pond can probably be sampled with a long-handled scoop. She mentioned that the area is very "grown up".

When asked about fishing, Ms. Robinson reported that the pond is fished regularly and that the fish are eaten. She stated that she had seen someone catch a large catfish recently and that there are also bass, bream, and crappie in the pond.

We also discussed the fact that there is a low-lying area in the vicinity of Fountain and Canton Streets that was once intended for development into streets. Mr. Riley Dean had mentioned this to me and I had also noticed it on the water-line map received from the city of Durham. It is quite likely that surface water runoff from the site flows through this low area.

July 20, 1994

TO: File

FROM: Irene Williams, Environmental Chemist *Irene Williams*  
N.C. Superfund Section

RE: Supreme Finishing (NCD 986 188 878)  
Teleconference with Mr. Hansen concerning  
sampling planned for August 2, 1994

On the above date I spoke with Mr. Al Hansen, 596-5377 (Office: 419-6599), concerning sampling planned for August 2, 1994. He confirmed that he had bought the house at 3033 Ross Road for his son. He gave permission for sampling on his property and said he would notify his son of our plans. Mr. Hansen also indicated that the building left on the site has been vandalized and used by street people and that it should be torn down "before someone gets killed".

July 19, 1994

TO: File

FROM: Irene Williams, Environmental Chemist *Irene Williams*  
N.C. Superfund Section

RE: Supreme Finishing (NCD 986 188 878)  
Teleconference with Mrs. Crutchfield concerning  
property ownership in site vicinity

On the above date I spoke with Mrs. Agnes Crutchfield, 3031 Ross Road, Durham, NC, 596-3963, for information concerning property ownership in the site area. Mrs. Crutchfield reported that the house and small lot at 3033 Ross Road had been auctioned off in March. It was purchased by Mr. Al Hansen for his stepson and daughter-in-law. She suggested I call Mr. Hansen at 596-5377 or at the Durham Herald newspaper office for further information.

She also mentioned that she thought she had seen the Holloways at the site on July 18, 1994. Mrs. Crutchfield verified Ms. Robinson's comment about standing water in a hole left on the site after the removal action by EPA. She also indicated that the building left on the site was an eyesore and that it should be razed since its presence has an adverse effect on property values in the area.

July 19, 1994

TO: File

FROM: Irene Williams, Environmental Chemist *Irene Williams*  
N.C. Superfund Section

RE: Supreme Finishing (NCD 986 188 878)  
Teleconference with Mrs. Holloway concerning  
sampling to take place 8/2/94

On the above date I spoke with Mrs. Peggy Holloway, Bahama Road, Durham, NC, 477-1732, concerning permission to collect samples on the site property and for information concerning property ownership. Mrs. Holloway indicated that she and her husband (Elry) still own the site. They filed Chapter 11 Bankruptcy and lost the house property to the bank. The bank, in turn, sold or auctioned the house. Mrs. Holloway said it was permissible to sample on the site.

State of North Carolina  
Department of Environment,  
Health and Natural Resources  
Division of Solid Waste Management



James B. Hunt, Jr., Governor  
Jonathan B. Howes, Secretary  
William L. Meyer, Director

July 19, 1994

Mr. John Upton  
Director of Environmental Health  
Durham County Health Department  
414 East Main Street  
Durham, NC 27701

RE: Site Inspection  
Supreme Finishing  
NCD 986 188 878

Dear Mr. Upton:

David Lilley of the NC Superfund Section spoke with Sandy McFall of your office today to notify you that the NC Superfund Section will conduct a site inspection of the subject site located in Durham County, North Carolina. The inspection will be conducted on August 2, 1994 by Irene Williams of the NC Superfund Section.

The purpose of the inspection is to determine if the site poses a hazard to public health or the environment because of releases of contaminants to soil, surface water, groundwater, or air. The inspection team will take samples on and around the site to determine if a hazardous condition exists. Additionally, they will locate all nearby water supplies (surface and groundwater, community and private) and any close sensitive environments, schools, and day care centers.

This inspection is not an emergency situation but is a normal step in the evaluation of all uncontrolled and unregulated potential hazardous waste sites in North Carolina. You may want to have your representative meet the inspection team at the site. If so, please contact Irene Williams at (919) 733-2801 and she will coordinate a meeting. I am enclosing background data on the site for your information.

If the inspection indicates the need for future study of the site, we will contact your office to advise. If you have any questions, please don't hesitate to call David Lilley or me at (919) 733-2801.

Sincerely,

Pat DeRosa, Head  
CERCLA Branch  
Superfund Section

Enclosures

cc: Phil Prete  
Doug Holyfield  
Pat Williamson  
Kim Clarke  
David Lilley  
Donna Keith

Federal  
Trip Notification & Authorization

Prepared by: Irene Williams

Today's Date: 7/15/94

\*Use Black Ink or Typewriter only-Staff to fill out first 2 blocks only.

Site Trip

Date of Trip: August 2, 1994

If trip date changed or cancelled note below:

Trip Date Changed To: \_\_\_\_\_ Cancelled: \_\_\_\_\_

NCD#: 986188 878

Site Name: Supreme Finishing

City: Durham

County: Durham

Reason for Trip: Site Inspection

Name of Hotel (Overnight Trip): \_\_\_\_\_ Hotel Telephone Number: ( ) \_\_\_\_\_

Authorized by: David B. Kelly

Industrial Hygienist

Project Team Leader: Irene Williams

Assistants: Harry Zinn, Jeanette Stanley, Bob Gandley

Attach To Notification Form: 1 copy each: Preliminary Assessment Form (First page only)  
Submit to the Site Map  
Industrial Hygienist PA Transmittal Letter

(Please list appropriate County Health Department contact person to call to advise of trip)

Environmental Supervisor or Health Director to call: Mr. John Upton

(Note if Dr., M.P., etc.)

Director of  
Title: Env. Health

Telephone Number: (919) 560-7800

Notes:

Health Department Official Contacted: Sandy McFall

Back Up Letter Required: Yes  No

Notified Ms. McFall for Mr. Upton on

7-19-94 (PBL)

Note: Signed original to Data Manager

July 18, 1994

TO: File

FROM: Irene Williams, Environmental Chemist *Irene Williams*  
N.C. Superfund Section

RE: Supreme Finishing (NCD 986 188 878)  
Teleconference with Ms. Robinson concerning property  
adjacent to site

On the above date I spoke with Ms. Linda Robinson, C-48 Canton Street, Durham, NC, 596-3644, concerning permission to sample soil on their property adjacent to and across Fountain Street from the site and for information concerning property ownership in the site neighborhood. Ms. Robinson indicated that she was uncertain who owned property between that of the Robinsons and the Deans. She said that she thought that someone named Weatherly had at one time owned a lot of property in the area and had sold it to someone named Weldon for development. She also indicated that she thought a church had bought the land with the small pond across the road from Robinson's property. The Robinsons own land adjacent to and going into the larger pond behind their house.

Ms Robinson said she felt certain that it would be all right to sample anywhere in the area. I told her that I would continue to track property ownership in the site vicinity, that we plan to sample soil, water and sediment in about two weeks, and that I would call to let her know an approximate time so she could arrange to be there if she wished. I also encouraged her to call me if she has any questions or more information for me.

Ms. Robinson reported that the house at 3033 Ross Road has been auctioned off, presumably as a separate property from the site itself. She encouraged me to call Mrs. Agnes Crutchfield for more information on this. She also mentioned that EPA had left a "dip" in the soil on the site that contains standing water and overflows across the road when there is a good rain.

The Robinsons have not used their well for drinking water for a number of years because of an unpleasant taste; however, they do use well water for cooking, bathing, etc.

July 18, 1994

TO: File

FROM: Irene Williams, Environmental Chemist *Irene Williams*  
N.C. Superfund Section

RE: Supreme Finishing (NCD 986 188 878)  
Teleconference with Mrs. Dean concerning property  
adjacent to site

On the above date I spoke with Mrs. J. Riley Dean, 3047 Ross Road, Durham, NC, 596-6962, concerning permission to sample soil on their property adjacent to and across Fountain Street from the site. Mrs. Dean indicated that she knew that they owned a lot behind the lot on which their house sits, but was uncertain of the dimensions of the property. Mr. Dean is in the hospital so it is inconvenient to ask him for information. Mrs. Dean indicated that we have her permission to sample and suggested contacting the Robinsons. I told her that I had been trying to reach Ms. Linda Robinson and would continue to do so. I told Mrs. Dean that we plan to sample in two weeks and left her my name and number in case she had any questions or comments.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

APR 04 1994



4WD-WPB

Ms. Pat DeRosa, Head  
CERCLA Branch  
North Carolina Department of Environment,  
Health and Natural Resources  
P.O. Box 27687  
Raleigh, North Carolina 27611-7687

SUBJ: Jimmy Green Metals, Nash County, Nashville  
Supreme Finishing, Durham, NCD986188878

Dear Ms. DeRosa:

I have added a Discovery Event to CERCLIS for the Jimmy Green Metals site, located in Nashville, Nash County, NC. As per our telephone conversation, you may do a combined PA/SI report for the site. The combined assessment should be similar to a regular SI, and should include all elements normally covered in a PA. When the combined PA/SI is completed and reviewed by EPA, it will serve as both the PA and the SI. The SI sampling at the Jimmy Green Metals site should include the nearby shallow, bored drinking water wells.

As per my telephone conversation with Irene Williams of your staff on 3/31/94, regarding Supreme Finishing, I have decided to change the original "no further action" decision on the PA. Supreme Finishing is approved for a Site Inspection (lower priority). The potential threat to public health resulting from residual soil contamination remaining after the removal action and a small pond used for fishing are of concern.

If you have any questions or comments on the above, please call me.

Sincerely,

Cathy Amoroso  
Environmental Scientist

cc: Irene Williams, NCDEHNR, CERCLA Branch



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

MAR 08 1994

MAR 11 1994

4WD-WPB

Ms. Pat DeRosa, Head  
CERCLA Branch  
North Carolina Department of Environment,  
Health and Natural Resources  
P.O. Box 27687  
Raleigh, North Carolina 27611-7687

Dear Ms. DeRosa:

The following reports have recently been reviewed and accepted by EPA - Region IV Site Assessment Section:

Preliminary Assessments

Rocky Mount Coal Gas #2 Edgecombe County NCD 986 197 317	Lower priority for SI
Rocky Mount Coal Gas #1 Edgecombe County NCD 986 197 325	No Further Remedial Action Planned (NFRAP), referred to ERRB for removal assessment
<b>Supreme Finishing</b> NCD 986 188 878	NFRAP
Stoller Chemical -Severn NCD 986 227 965	NFRAP
Krajack Truck Spill NCD 986 215 697	NFRAP

Site Inspections

McRae Street Landfill New Hanover County NCD 986 171 973, supplemental data	NFRAP
Phillips Plating Co. NCD 041 466 806	NFRAP

Site Inspection Prioritizations (SIPs)

Caro-Knit New Hanover County NCD 986 171 973	Decision on hold pending NC Inactive Sites Branch activity (note: additional PRP data available). EPA report
--	---

San Lee Park  
Lee County  
NCD 981 021 652

NFRAP  
EPA report, copy enclosed

Gurley Pesticides  
NCD 986 172526

Lower priority for ESI

Keener Landfill  
NCD 981 031 693

NFRAP  
EPA report, copy enclosed

Bladen County Landfill  
NCD 980 502 819

NFRAP  
EPA report, copy enclosed

University of NC Arpt  
Waste Dspl Area  
NCD 980 557 326

NFRAP

Weathersfield Place Condo  
NCD 980 843 106

NFRAP  
EPA report, copy enclosed

Borden Chem Fayetteville Plant  
NCD 003 189 024

NFRAP  
EPA report, copy enclosed

Sorrell Landfill  
NCD 980 503 122

NFRAP  
EPA report, copy enclosed

Other

Mobile Oil Corp.  
New Hanover County  
NCD 000 772 046

EPA re-evaluation, NFRAP

Helena Chemical Co.  
Laurensburg, Scotland County  
NCD 082 363 102

EPA re-evaluation of site  
based on ERRB data. NFRAP.  
Notes enclosed

If you have any questions concerning these site decisions,  
please call me.

Sincerely,



Cathy Amoroso  
Environmental Scientist

Enclosures

REMEDIAL SITE ASSESSMENT DECISION - EPA REGION IV

RECEIVED  
MAR 14 1994  
SUPERFUND SECTION

Site Name: Supreme Finishing EPA ID#: UCD 986 188 878

Alias Site Names: \_\_\_\_\_

City: Durham County or Parish: Durham State: NC

Refer to Report Dated: 9-30-93 Report type: PA

Report developed by: Irene Williams, NCDEHNR

DECISION:

1. Further Remedial Site Assessment under CERCLA (Superfund) is not required because:

1a. Site does not qualify for further remedial site assessment under CERCLA (Site Evaluation Accomplished - SEA) | | 1b. Site may qualify for further action, but is deferred to: | | RCRA | | NRC

| | 2. Further Assessment Needed Under CERCLA: 2a. (optional) Priority: | | Higher | | Lower

2b. Activity | | PA | | ESI  
Type: | | SI | | HRS evaluation  
| | Other: \_\_\_\_\_

DISCUSSION/RATIONALE: ERFB removal <sup>done</sup> some soil contamination (metals) remains. Very little groundwater use. Only realistic surface water target is a small private pond. The pond is potentially treated as Chromium<sup>VI</sup>, Cadmium, & selenium are found on site. Targets too low to warrant NPL listing.

Report Reviewed and Approved by: Cathy Amoroso Signature: Ca Date: 2/14/94

Site Decision Made by: Cathy Amoroso Signature: Ca Date: 2/14/94

Disposition charged to lower priority for SI per letter from C. Amoroso dated 4/4/94  
Patterson

SITE HEALTH AND SAFETY PLAN

A. General Information

Site Name Supreme Finishing ID # NCD 986 188 878

Location 3033 Ross Road, Durham, Durham County,  
NC

Proposed Date of Investigation March 31, 1993

Date of Briefing March 31, 1993

Date of Debriefing April 1, 1993

Nature of Visit (check one): On-Site Reconnaissance (PA) X  
On-Site Reconnaissance (SI) \_\_\_\_\_  
Site Investigation \_\_\_\_\_

Health Department Official Contacted Ms. Sally McFall for John Upton

Date of Contact March 30, 1993

Site Investigation Team: All site personnel have read the Site Health and Safety Plan and are familiar with its provisions.

<u>Personnel</u>	<u>Responsibilities</u>	<u>Signature</u>
Team 1 <u>Irene Williams</u>	<u>team leader, recon</u>	<u>Irene Williams</u>
Team 1 <u>Pat DeRosa</u>	<u>reconnaissance</u>	<u>Pat DeRosa</u>

Plan Preparation:

Prepared By: David Lilley, Industrial Hygienist David B. Lilley  
Reviewed By: Jack Butler, Environmental Engineer Jack Butler

**B. SITE/WASTE CHARACTERISTICS**

Waste Type(s)      Liquid   X   Solid      Sludge      Gas      Vapor  
 Characteristics      Corrosive      Ignitable      Radioactive  
     Volatile   X   Toxic      Reactive      Other

List Known or Suspected Hazards (physical, chemical biological or radioactive) on Site and their toxicological effects. Also, if known, list chemical amounts

HAZARD	WARNING PROPERTIES	EXPOSURE LIMIT
Potassium Cyanide	Odor Threshold (OT) = no data	5 mg/m <sup>3</sup>
Chromium	OT = no data	0.05 mg/m <sup>3</sup>
Nickel	OT = no data	0.1 mg/m <sup>3</sup>

**UNDERGROUND UTILITIES CHECKLIST**

<u>Utility</u>	<u>Locator/Contact Person</u>	<u>Phone #</u>	<u>Date of Location</u>
Power	NA		
Telephone	NA		
Gas	NA		
Water	NA		
Sewer	NA		

Work Number:

Call made by:

Facility Description: Size 1 acre Buildings yes  
Disposal Methods Being Investigated Possible leakage of drums.

Unusual Features on Site (dike integrity, power lines, terrain, etc.):  
There are hot spots existing on site which are well marked. Avoid these areas.

History of the Site: The facility is a defunct plating facility.  
Reportedly, 40-50 drums of plating waste located on the property were removed.

C. HAZARD EVALUATION

The site can be toured in level D protection. No sampling will be conducted at this time. Steel toed work boots will be worn while touring the site. EPA's Technical Assistance Team will be present and excavating soil during the site visit. EPA TAT has a safety plan in place they are following. I spoke with Mike Taylor on March 30, 1993 and we agreed Superfund staff could tour the site in level D protection as long as they stayed out of the "hot" zones. Mr. Taylor will brief Superfund staff on EPA TAT's safety plan upon arrival. If this safety plan differs from EPA TAT's, the most restrictive shall apply.

D. WORK PLAN INSTRUCTION

Map or Sketch Attached? yes  
Perimeter Identified? no  
Command Post Identified? no  
Zones of Contamination Identified? no

Personal Protective Equipment/Level of Protection:      C   X   D

Modifications \_\_\_\_\_

Surveillance Equipment:

<u>          </u> HNU	<u>          </u> Detector Tubes and Pumps
<u>          </u> OVA	<u>          </u> O2 Meter
<u>          </u> Explosimeter	<u>          </u> Radiation Monitor

Decontamination Procedures

           Level C    Respirator wash, respirator removal, suit wash (if needed),  
                          suit removal, boot wash, boot removal and glove removal.

  X   Level D    Boot wash and rinse and boot removal, suit removal, glove  
                          and goggle removal.

Modifications Dispose of trash properly, on-site if possible.

\_\_\_\_\_

\_\_\_\_\_

Work Schedule/Visit Objectives The purpose of this visit is to determine  
if the site poses a threat to the public health or environment because of  
releases of contaminants to soil, surface water, groundwater, or air.  
No sampling will be conducted at this time, sampling may take place on a  
later date.

EMERGENCY PRECAUTIONS

<u>Route of Exposure</u>	<u>First Aid</u>
<u>Eyes</u>	<u>irrigate immediately</u>
<u>Skin</u>	<u>soap and water wash</u>
<u>Inhalation</u>	<u>fresh air and artificial respiration</u>
<u>Ingestion</u>	<u>get medical attention immediately</u>

ID # NCD 986 188 878

Location of Nearest Phone: EPA TAT has mobile phone on-site

Hospital (Address and Phone Number)

Duke University Hospital, Erwin Road, PO Box 3708, Durham NC 27710

(919) 684-8111

Emergency Transportation Systems (Phone Numbers)

Fire 911

Ambulance 911

Rescue Squad 911

Emergency Route to Hospital Take a right onto Chandler Road, then right onto Holloway Street. Take Holloway St. to Alston Ave., turn left and go to Route 147 and go north. Take the hospital exit off 147, the hospital is about 8 miles from the site.

PREVAILING WEATHER CONDITIONS AND FORECAST Partly cloudy with a chance of rain, highs in the 60s.

**EQUIPMENT CHECKLIST**

<input type="checkbox"/>	Air purifying respirator	<input checked="" type="checkbox"/>	First Aid Kit
<input type="checkbox"/>	Cartridges for respirator	<input checked="" type="checkbox"/>	3 gal. Deionized H2O
<input type="checkbox"/>	Eye Wash Unit	<input checked="" type="checkbox"/>	Rainsuit
<input type="checkbox"/>	HNU	<input checked="" type="checkbox"/>	Gloves (PE/PVC/nitrile/cloth)
<input type="checkbox"/>	OVA	<input checked="" type="checkbox"/>	Boots/Boot Covers
<input type="checkbox"/>	Explosimeter	<input type="checkbox"/>	Coveralls (tyvek/saranex)
<input type="checkbox"/>	Radiation Monitor	<input type="checkbox"/>	Eye Protection (goggles/shield)
<input checked="" type="checkbox"/>	Decontamination Materials	<input checked="" type="checkbox"/>	Hard Hat

Poison Control Center - State Coordinator  
Duke University Medical Center  
Telephone: 1-800-672-1697  
Box 3024  
Durham, NC 27710

ASHEVILLE 704-255-4490	Western NC Poison Control Center Memorial Mission Hosp. 509 Biltmore Ave. 28801	HENDERSONVILLE 704-693-6522 Ext. 555,556	Margaret R. Pardee Memorial Hospital Fleming St., 28739
CHARLOTTE 704-379-5827	Mercy Hospital 2001 Vail Ave, 28207	HICKORY 704-322-6649	Catawba Mem. Hosp. Fairgrove Chur. Rd 28601
DURHAM 1-800-672-1697	Duke Univ. Med. Center Box 3007, 27710	JACKSONVILLE 919-577-2555	Onslow Mem. Hospital Western Blvd. 28540
GREENSBORO 919-379-4105	Moses Cone Hospital 1200 N. Elm St. 27420	WILMINGTON 919-343-7046	New Hanover Mem. Hospital 2131 S. 17th St. 28401



Area covered by map of Downtown Durham above

TO BE COMPLETED BY PROJECT MANAGER

PROJECT MANAGER: Irene Williams PROJECT: Supreme Finishing  
INVESTIGATION DATE: March 31, 1993  
RECONNAISSANCE X SAMPLING VISIT \_\_\_\_\_

Materials Used (Please insert a number in the blank)

_____ Air Purifying respirator cartridges	_____ Gloves (nitrile)
_____ Eye Wash Units	_____ Gloves (cloth)
_____ First Aid Kit	_____ Boot covers
_____ Gloves (polyethylene)	_____ Coveralls (tyvek)
_____ Gloves (PVC)	_____ Coveralls (saranex)

Respirator Worn By	Approximate Time in Respirator
_____	_____
_____	_____
_____	_____

Air Monitoring Data (Include Calibration Reading)

HNU: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
OVA: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Explosimeter: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Radiation Meter: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If the maximum personal protective equipment as outlined in the Hazard Evaluation Section was not used, please justify:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Visitors Present

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Organization Represented

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
Signature

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Cyanides (as CN) 1) Potassium Cyanide 2) Sodium Cyanide

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>KCN/NaCN</u>	<u>1</u>
Natural Physical State at 25°C <u>solid</u>	<u>1</u>
Vapor Pressure <u>~0</u> mm Hg at 20°C	<u>1</u>
Melting Point <u>1175/1040</u> °F/°C Boiling Point <u>?/2732</u> °F/°C	<u>1</u>
Flash Point (open or closed cup) <u>not combustible</u> °C/°F	<u>1</u>
Solubility - H <sub>2</sub> O <u>72%/58%</u>	<u>1</u>
Other _____	_____

Physical Features: (odor, color, etc.) white solids with a faint almond odor (1)

II. TOXICOLOGICAL DATA as CN

skin  
Standards: 5 mg/m<sup>3</sup> (2) TLV 5 mg/m<sup>3</sup> (3) PEL 50 mg/m<sup>3</sup> IDLH 1

Routes of Exposure: Inhalation, skin absorption, eye contact, ingestion (1)

Acute/Chronic Symptoms: Asphyxia and death can occur, weakness, headache, confusion, nausea, vomiting, incoordination of respiratory rate, slow gasping respiration, eye and skin irritation(1).

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately

Chemical Name: Cyanides (as CN)

1) Potassium cyanide

2) Sodium cyanide

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes  No

1

Toxic by-products \_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

B. Flammability LEL \_\_\_\_\_ UEL \_\_\_\_\_

\_\_\_\_\_

C. Reactivity Hazard Incompatible with strong oxidizers  
such as nitrates, chlorates, acids, acid salts

1

D. Corrosivity Hazard yes/no pH: \_\_\_\_\_

\_\_\_\_\_

Neutralizing agent: \_\_\_\_\_

\_\_\_\_\_

E. Radioactive Hazard Exposure Rate

Background yes/no

\_\_\_\_\_

Alpha particles yes/no

\_\_\_\_\_

Beta particles yes/no

\_\_\_\_\_

Gamma radiation yes/no

\_\_\_\_\_

IV. REFERENCES

1) Pocket Guide to Chemical Hazards, NIOSH, 1987

2) Threshold Limit Value and Biological Exposure Indices  
for 1991-92, ACGIH

3) 29 CFR 1910.1000.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Chromium (VI), insoluble salts

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>varies with compound</u>	<u>1</u>
Natural Physical State at 25°C <u>solid</u>	<u>1</u>
Vapor Pressure <u>N/A</u> mm Hg at 20°C	
Melting Point _____ °F/°C Boiling Point _____ °F/°C	
Flash Point (open or closed cup) <u>N/A</u> °C/°F	
Solubility - H <sub>2</sub> O <u>not soluble in water</u>	<u>1</u>
Other _____	

Physical Features: (odor, color, etc.) Properties vary depending upon specific compound. Compounds include: zinc chromate, lead chromate, calcium chromate, etc.

II. TOXICOLOGICAL DATA

Standards: 0.05 mg/m<sup>3</sup>(2) TLV      0.5mg/m<sup>3</sup>(4) PEL      500 mg/m<sup>3</sup> IDLH 3

Routes of Exposure: Inhalation and ingestion

Acute/Chronic Symptoms: Chronic: fibrosis of the lung and epidemiological studies have shown increased incidence of lung cancer among workers in the manufacture of chrome pigments

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately

Chemical Name: Chromium (VI), insoluble salts

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes  No   
Toxic by-products \_\_\_\_\_  
\_\_\_\_\_

B. Flammability LEL N/A UEL \_\_\_\_\_

C. Reactivity Hazard strong oxidizers 3

D. Corrosivity Hazard yes/no pH: \_\_\_\_\_

Neutralizing agent: \_\_\_\_\_

E. Radioactive Hazard		Exposure Rate	
Background	yes/no	_____	_____
Alpha particles	yes/no	_____	_____
Beta particles	yes/no	_____	_____
Gamma radiation	yes/no	_____	_____

IV. REFERENCES

1. The Merck Index, 11th Edition, 1989.
2. Threshold Limit Values and Biological Exposure Indices for 1991-1992, ACGIH
3. Pocket Guide to Chemical Hazards, NIOSH, 1987
4. 29 CFR 1910.1000

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Nickel - soluble salts (soluble salts of nickel include the chloride, sulfate and nitrate)

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>vary depending on compound</u>	_____
Natural Physical State at 25°C <u>solid</u>	<u>1,2</u>
Vapor Pressure _____ mm Hg at 20°C	_____
Melting Point <u>1550</u> °F/°C Boiling Point <u>2837 (calc)</u> °F/°C	<u>1,2</u>
Flash Point (open or closed cup) _____ °C/°F	_____
Solubility - H <sub>2</sub> O _____	_____
Other _____	_____

Physical Features: (odor, color, etc.) vary depending on compound

II. TOXICOLOGICAL DATA

for soluble compounds

Standards: 0.1 mg/m<sup>3</sup> (3) TLV 0.1 mg/m<sup>3</sup> (4) PEL potential (5) IDLH carcinogen

Routes of Exposure: Inhalation, skin - dermatitis, eye - mild eye irritant

Acute/Chronic Symptoms: Irritation of skin and mucous membrane, chronic symptoms: is considered a potential occupational carcinogen. Ingestion of soluble salts may cause nausea, vomiting, diarrhea. (1)

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately

Chemical Name: Nickel - soluble salts

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes  No  1,2  
Toxic by-products \_\_\_\_\_  
\_\_\_\_\_

B. Flammability LEL \_\_\_\_\_ UEL \_\_\_\_\_

C. Reactivity Hazard nitric acid readily attacks nickel 1

D. Corrosivity Hazard yes/no pH: \_\_\_\_\_

Neutralizing agent: \_\_\_\_\_

E. Radioactive Hazard		Exposure Rate	
Background	yes/no	_____	_____
Alpha particles	yes/no	_____	_____
Beta particles	yes/no	_____	_____
Gamma radiation	yes/no	_____	_____

IV. REFERENCES

- (1) Documentation of the TLV, 4th Edition, 1980.
- (2) The Merck Index, 11th Edition, 1989.
- (3) Threshold Limit Values and Biological Exposure Indices  
for 1990-91, ACGIH.
- (4) 29 CFR 1910.1000.

file



State of North Carolina  
Department of Environment, Health, and Natural Resources  
512 North Salisbury Street • Raleigh, North Carolina 27604

James B. Hunt, Jr., Governor

Division of Solid Waste Management  
Telephone (919) 733-4996

Jonathan B. Howes, Secretary

March 30, 1993

Mr. John Upton  
Director of Environmental Health  
Durham County Health Department  
414 East Main Street  
Durham, NC 27701

RE: Preliminary Assessment  
On-Site Reconnaissance  
Supreme Finishing  
NCD 986 188 878

Dear Mr. Upton:

David Lilley of the NC Superfund Section spoke with Ms. Sandy McFall of your office today to notify you that the NC Superfund Section will conduct an on-site reconnaissance of the subject site located in Durham County, NC. The reconnaissance will be conducted on April 1, 1993 by Irene Williams of the NC Superfund Section.

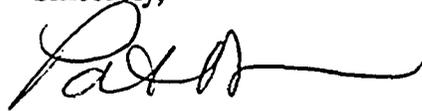
The purpose of the reconnaissance is to determine if the site poses a hazard to public health or the environment because of releases of contaminants to soil, surface water, groundwater, or air. The reconnaissance team will locate all nearby water supplies (surface and groundwater, community and private) and any close sensitive environments, schools, and day care centers.

This reconnaissance is not an emergency situation but is a normal step in the evaluation of all uncontrolled and unregulated potential hazardous waste sites in North Carolina. You may want to have your representative meet the reconnaissance team at the site. If so, please contact Irene Williams at (919) 733-2801 and she will coordinate a meeting. I am enclosing background data on the site for your information.

Mr. Upton  
3-30-93  
Page 2

If the reconnaissance indicates the need for future study of the site, we will contact your office to advise. If you have any questions, please don't hesitate to call David Lilley or me at (919) 733-2801.

Sincerely,

A handwritten signature in black ink, appearing to read 'Pat DeRosa', with a long horizontal flourish extending to the right.

Pat DeRosa, Head  
CERLCA Branch  
Superfund Section

Enclosures

cc: Dexter Matthews  
Doug Holyfield  
Debbie Crane  
Angie Coppola  
David Lilley  
File

Federal  
Trip Notification & Authorization

Prepared by: Irene Williams

Today's Date: 3/23/93

\*Use Black Ink or Typewriter only-Staff to fill out first 2 blocks only.

Site Trip

Date of Trip: 3/31/93

If trip date changed or cancelled note below:

Trip Date Changed To: \_\_\_\_\_ Cancelled: \_\_\_\_\_

NCD#: 986 188 878

Site Name: Supreme Finishing

City: Durham

County: Durham

Reason for Trip: PA Reconnaissance (ON SITE)

Name of Hotel (Overnight Trip): \_\_\_\_\_

Hotel Telephone Number: ( ) \_\_\_\_\_ - \_\_\_\_\_

Authorized by: [Signature]

Industrial Hygienist

Project Team Leader: Irene Williams

Assistants: Pat DeRosa, Dave Lilly (optional)

Attach To Notification Form: 1 copy each:

Submit to the  
Industrial Hygienist

Preliminary Assessment Form (First page only)

Site Map

PA Transmittal Letter

(Please list appropriate County Health Department contact person to call to advise of trip)

Environmental Supervisor or Health Director to call: Mr. John Upton

(Note if Dr., M.P., etc.)

Director of  
Title: Env. Health

Telephone Number: (919) 562-7800

Notes:

Health Department Official Contacted: Sandy McFall

Back Up Letter Required: Yes  No

Notified Ms. McFall on 3-23-93 (DBL)

for John Upton

Note: Signed original to Data Manager

Federal  
Trip Notification & Authorization

Prepared by: David Lilley

Today's Date: 3-30-93

• Use Black Ink or Typewriter only-Staff to fill out first 2 blocks only.

Site Trip

Date of Trip: 3-31-93

If trip date changed or cancelled note below:

Trip Date Changed To: 4-1-93 Cancelled: \_\_\_\_\_

NCD#: 986 188 878

Site Name: Supreme Finishing

City: Durham

County: Durham

Reason for Trip: PA Reconnaissance

Name of Hotel (Overnight Trip): \_\_\_\_\_ Hotel Telephone Number: ( ) \_\_\_\_\_

Authorized by: David B. Lilley

Industrial Hygienist

Project Team Leader: Irene Williams

Assistants: Pat DeRosa, David Lilley (optional), \_\_\_\_\_

Attach To Notification Form: 1 copy each: Preliminary Assessment Form (First page only)  
Submit to the Industrial Hygienist Site Map  
PA Transmittal Letter

(Please list appropriate County Health Department contact person to call to advise of trip)

Environmental Supervisor or Health Director to call: John Upton Title: Director of Env. Health

(Note if Dr., M.P., etc.)

Telephone Number: (919) 560-7800

Notes:

Health Department Official Contacted: Ms. Sandy McFall

Back Up Letter Required: Yes  No

Notified Mrs McFall on 3-30-93 of the date change (DBL)

Note: Signed original to Data Manager

# CHRONOLOGICAL SITE VISIT

FOR 3033 ROSS RD

(Supreme Finishing)

T. Waddell

Rec'd from  
T. Waddell  
3/8/93



- 5/3/91 - INITIAL SITE VISIT (FACILITY ACCESSIBLE)
- 5/14/91 - Primary Investigation with Mrs. Holloway  
(EMERGENCY RESPONSE INITIATED)\* SOME WASTE REMOVAL
- \* 5/15/91 - Site visit - (Security Check)
- 5/16/91 - Site visit - (MET WITH EPA TAT) site secure
- 8/7/91 - site visit - ATTEMP MADE TO OBTAIN FILES, KEY WILL NOT WORK ON FILE CABINET
- 8-12-91 - Site visit - Condemned Sign Posted by City
- 8-19-91 - Cut Bolt on File Cabinet, obtained files (permission from Holloway)
- 9-16-91 - Site visit, Looked into ATTIC FOR Additional Files
- 9-17-91 - Site visit, SAMPLED AREA at rear of Building
- 9-23-91 - Site visit, MET with AL SHAKIN of Dynamic Ind. to I.D. his WASTE.
- 10-3-91 - Site visit, MET with Vendor a Shakin to obtain COST of DISPOSAL
- + 11-19-91 - Site visit, MET with MILKE TAYLOR, USEPA, to give site keys, & brief on history
- 11-20-91 - Site visit (ok on Security.)
- 4-28-92 Site visit, (ok on Security) site HAS BEEN UNDAZIALIZED

\*\* SEE DETAILED REPORT ATTACHED WITH EXPENSE SHEET  
\* SEE ATTACHED MANIFEST.

5-19-92 - Site visit, CLK on security

8-19-92 - Site visit, Met with Mike Taylor, USEPA,  
Prior to "HAZ-CATING"

8-20-92 - Site visit EPA HAZCATING site for future removal  
of ALL WASTE AND CONTAMINATION

~~8-23-92~~ 9-23-92 - Site visit with L. Lambeth, USEPA, Talked with  
guard. Note possible break in attempts

1-13-92 - Site visit.

11/19/91 - SITE TURNED OVER TO EPA. NO ENTERING FACILITY  
ACCG EXCEPTING IN LEVEL B

# NORTH CAROLINA HAZARDOUS WASTE MANIFEST

Please print or type. (Form designed for use on elite (pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>NC11M P01003036601001</b>		Manifest Document No. <b>661001</b>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address <b>Attn: Bill Meyer Peggy Holloway Property - NCDHR PO Box 2091 27687 Raleigh, NC 27611-2091</b>						A. State Manifest Document Number							
4. Generator's Phone <b>919 273-2178</b>						B. State Generator's ID <b>3033 Ross Rd Durham, NC 27703</b>							
5. Transporter 1 Company Name <b>Four Seasons Industrial Services, Inc. NCID9911277732</b>						C. State Transporter's ID							
7. Transporter 2 Company Name						D. Transporter's Phone <b>(919) 273-2718</b>							
9. Designated Facility Name and Site Address <b>Laidlaw Environmental Services, Inc. Rt 11, Box 3 Reidsville, NC 27320</b>						E. State Transporter's ID							
10. US EPA ID Number <b>NCID000164184511</b>						F. Transporter's Phone							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vo		1. Waste No.	
a. <del>RQ, Waste, Potassium Cyanide, solid - Poison B UN1680</del>						2 DM		300 P				D003, P098	
b. RQ, Waste, Acid, liquid, n.o.s. Corrosive Material NA 1760						2 DF		1110 G				D002	
c. RQ, Hazardous Waste Solid, n.o.s. ORM-E NA 9189 (Cadmium)						2 DM		200 P				D006	
d. RQ, Hazardous Waste Solid, n.o.s. ORM-E NA 9189 (Cadmium)						3 DF		300 P				D006	
J. Additional Descriptions for Materials Listed Above a) overpacked 30 gal DM in 17H-55 cotton drums b) overpacked 1755 metal (non-leaking) in E9618 c) overpacked fiber drums in 17H-55 (Poly OP) d) 2 @ 55, 1 @ 85 op (Poly) 4 units total inside						K. Handling Codes for Wastes Listed Above 11.A. Item moved to manifest # 00002 per D.O.T. requirements							
15. Special Handling Instructions and Additional Information <b>24 Emergency (919) 273 2718 Bill to: F&amp;S PO Box 16590 Greer-3000, NC Lana Bin Certifications to follow prior Attn: Kern Webb ph: 27416 to receipt at TDF (for transportation only) Ref: Proj # 91-50077 (919) 273-2718</b>													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name <b>Teery W. Underhill - NC (HWS)</b>						Signature <i>Teery W. Underhill</i>						Month Day Year <b>10/5/14/91</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <b>John P. Wilson</b>						Signature <i>John P. Wilson</i>						Month Day Year <b>12/5/14/91</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name <b>Tony D. Bowen</b>						Signature <i>Tony D. Bowen</i>						Month Day Year <b>10/5/23/91</b>	
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name <b>Jeff Skinner</b>						Signature <i>Jeff Skinner</i>						Month Day Year <b>10/5/23/91</b>	

# NORTH CAROLINA HAZARDOUS WASTE MANIFEST

Please print or type. (Form designed for use on electric typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>NC TMD9001031036000012</b>	Manifest Document No. <b>00012</b>	2. Page 1 of <b>1</b>	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <b>Attn: Bill Meyer 757 Holloway Property - NCDHNR PO Box 27687 Raleigh, NC 27611-7687</b>			A. State Manifest Document Number		B. State Generator's ID <b>3033 Ross Rd Durham, NC</b>	
4. Generator's Phone <b>(919) 733-2178</b>	6. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone <b>(919) 273-2718</b>	
5. Transporter 1 Company Name <b>Four Seasons Industrial Services, Inc</b>	7. Transporter 2 Company Name		E. State Transporter's ID		F. Transporter's Phone	
9. Designated Facility Name and Site Address <b>Laidlaw Environmental Services, Inc Rt 11, Box 3 Reidsville, NC 27320</b>			10. US EPA ID Number <b>NC D9009648451</b>		G. State Facility's ID	
			H. Facility's Phone <b>(919) 342-6106</b>			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			12. Containers	13. Total Quantity	14. Unit	1. Waste No.
			No.	Type	Wt/Vol	
a. <b>RQ, Waste, Potassium Cyanide, Solid, n.s. Poison B UN 1680</b>			<b>2</b>	<b>DM</b>	<b>300 P</b>	<b>D003, P098</b>
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above <b>a) overpacked, 30 gal DM in 17H-55 gal drums (Removed from manifest #0001 due to acids present, separate per DOT requirements on loading)</b>			K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information <b>24 hr Emergency (919) 273-2718 (see land ban notification)</b>						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name <b>Terry W. Washell - NCHHS</b>			Signature <i>Terry Washell</i>		Month Day Year <b>10 5 21 19 11</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials			Printed/Typed Name <b>Michael Sotloff</b>		Signature <i>Michael Sotloff</i>	
					Month Day Year <b>10 5 21 19 11</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials			Printed/Typed Name		Signature	
					Month Day Year	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name <b>Jeff Skinner</b>			Signature <i>Jeff Skinner</i>		Month Day Year <b>10 5 21 19 11</b>	

**INSTRUCTIONS ON BACK SHEET**

\* \* \*

DEPARTMENT OF HUMAN RESOURCES  
DIVISION OF HEALTH SERVICES  
ENVIRONMENTAL HEALTH SECTION

REPORT OF INVESTIGATION OR INSPECTION OF Holloway Property

Place visited FORMER Dynamic Industries Date 5-15 1991

Address 3033 Ross Rd., Durham, N.C. 27703 Time spent 10 1/2 hrs.

By whom TERRY W. WADDELL, N.C. Hazardous Waste Section

Persons contacted Peggy Holloway - owner, J.R. Dean - Neighbor, Randy Beck - Durham City  
Linda Robinson - (Owner, agent, tenant, manager, other) Neighbor, Bill Coloy Durham Co E.M.A.

Reason for visit Complaint from Randy Beck - Durham City Housing Inspector of an abandoned industrial site with drums visible through window and beside main structure

Copies to:

**REPORT: Directions:** Hwy 70-E. Exit Hwy 98 to Wake Forest. Turn Left onto Chandler Rd. Turn Left onto Ross Rd. Turn Right First Dirt <sup>Ed</sup> (Fountain Rd). Supreme Finishing Sgrn. ~~the~~ <sup>The</sup> Building ~~Street~~ Structure is a white one story build with a stagnant water area in at the front of Build.

4-29-91 <sup>H.W. Supervisor L. Perry</sup> Section Received the complaint of the <sup>Facility with abandoned drums inside and outside</sup> ~~Abandoned facility~~ from Randy Beck, City of Durham. Housing Inspector, (SGO-4570). Complaint was originally initially generated by a citizen to Durham Co. Emergency Management Board Coordinator William Colley (3604 Larry Perry) & forwarded the complaint to <sup>me</sup> Terry W. Waddell, regional waste Management Spec. (222 0621)

5-3-91 - Waddell visited the Holloway property initially. The site consisted of one 1 story white building of block ~~metal~~ <sup>metal</sup> construction with a small (10'x10') metal utility Bld. <sup>to the rear</sup> The site was overgrown with grass and other natural vegetation. All main structure doors were locked. The metal ~~str~~ utility ~~old~~ was not locked, looking through the window of the main door, 3 drums were visible, contents unknown, not leaking, and appear to be in good condition. No other containers were visible through window. The North end (Right) of the main structure had several containers of various condition and fullness. <sup>contents of containers</sup> ~~containers~~ appeared to be mostly rainwater. Area around containers was very unstable from <sup>wooden</sup> wooden planks and scrap metal. Outside (10'x10') utility Bld was latched but no lock. I opened the door to find many containers <sup>with</sup> ~~of~~ solvents, corrosives, unknowns. Some container ~~the~~ <sup>contents</sup> had reacted and formed crystals (<sup>corrosive</sup> ~~corrosive~~). Photos were taken of front ~~side~~ <sup>side</sup> of ~~the~~ main ~~str~~ structure and inside of metal utility Bld. Photos # 14, 16, 17, 20 and 21. ~~After~~ <sup>After</sup> attempt to contact Randy Beck was not successful. Site appeared stable.

5-6-91 - Randy Beck was contacted ~~Friday~~ <sup>Monday</sup> morning to gather further information. Beck reported the same ~~acc~~ <sup>acc</sup> findings as Waddell during his visit ~~as was~~ <sup>to the</sup> ~~with~~ but he did not see metal utility Bld. Beck reported the the property was half in City and half in County. The ~~same~~ <sup>facility</sup> proper was in the County, therefore he had no enforcement authority but <sup>to</sup> inform. Beck indicated that property owner was Elry & Peggy Holloway, Rt 1 Box 238-N, Bahama N.C. 27503 Ph # 477-1732. Waddell called the <sup>Holloway</sup> number - Left message on answer machine to return call.

5-9-91 ~~we~~ HAVE NOT received a return call from Mr. or Mrs Holloway. ATtemp to call again, Left message to return call ASAP.

5-13-91 HAVE NOT received call from Mr or Mrs Holloway. ATtemp to Contact was successful, set up meeting for 5-14-91 @ 11:00am at the site.

5-14-91 (No Power to the site!) Myself + Peggy Holloway Present. (SITE TOUR revealed 5 basic areas plus an detached metal utility Bld.)

10:40am Initial entry was into room #1. (Room #1 was the only area of main structure where containers were visible) Room #1 contained containers; one container (55 gal) labeled "xylene", two containers (55 gal) of Waste Paint, 2 VATS of dirty solvents and 1 drum of dirty solvent (strong odor when lids raised). Photos # 1, 2, 3.

Room #2 was entered from Room #1. Room #2 contains 11 VATS of which 7 contained material. A 15 gal container labeled Sulfuric acid was located between was located between VATS. Photos # 4, 5

Room #5 is entered through room #2 and room #4. A Potassium Cyanide labeled container was located within 6 ft of VAT ROOM (room #2) and within 2-3 feet of a black unlabeled container (with contents) which resemble sulfuric acid container. Within 6 to 8 feet, another container (unlabeled) the same size, color & type as the cyanide label container, had approx 3 to 4" of thick layer of crystals around the top. I assume this also to be Cyanide. Stacked in the upper far southern corner of room #5 was 5 to 6 containers labeled Cadmium Salts. In close proximity of the Cadmium Salts & Potassium Cyanide were two VATS with obvious corrosive contents. The floor of room #5 was gravel. (Photos 6, 7, 8, 9) Walking in area was difficult due to no light, pellets & debris. NO obvious odors were detected. Consider this a serious situation due to potential toxic gas.

Room #3 is entered through room #2 & room #4 & overhead door (jammed). This room contained a kiln & spray booth. Many containers of paint related material of various fullness was stacked against wall beside paint Booth. Photos 10

Room #4 is entered through room #3 and room #5. This area contained many 55 gallon drum of unknown & label materials. 2 of the drums with flammable labels and stenciled "Paint Thinner" was expanding. Tapping the drum reveal contents under some pressure. Consider this a dangerous fire & explosion risk. Photo 11, 12

Metal Utility Bld was accessed by rear door & around outside of Bld. Heavy vegetation ~~prevented~~ limited access. Door unlocked but latched. Inside were several container label print & related materials with flammable liquid DOT labels. OTHER containers appear to be of a corrosive nature. Crystals from corrosive reaction covered floor. Bld accessible but could be locked. Secured.

Outside, beside northern END of Bld, were several 55 gallon drum of various fullness as noted on 5-3-91 initial visit.

Beside Rear door (in front of Metal Utility Bld) were several 55 gallon containers with appear to have been paint related material. No apparent labels.

5-14-91 (Cont.)

- I informed Peggy Holloway of the imminent danger and indicated an immediate response will be made. Mrs Holloway said that she was not financially able to hire a company to respond. She said that her & her husband had filed Chapter 11 Bankruptcy. She also indicated that she was not aware of the present situation until now. Her attorney

Doug Wickham 821-8080 is her agent.

- Mrs Holloway said she called Dynamic Industries (Last occupant) about what material they left. ~~Dynamic Industries~~ <sup>Dynamic Industries</sup> according to said that they were looking for a buyer for some of the chemicals. They had no use for them were they moved to. (Dynamic Industries, 1521 WATSON AVE, WAKE Forest Ph# 554-1399. Contact Mr. CHAVIS.) Dynamic Indust. vacated in NOV. - DEC 1990. Dynamic leased premises from Holloways.

- Before Dynamic Industries, Ely Holloway operated Supreme Finishes.

Peggy & Ely Holloway purchased property from Gerald Thacker 471-2303 who started operated Supreme Finishes, also.

11:45am. Secured the site. Called Larry Perry by Pager 12:15 + 2:30 no <sup>no</sup> contact. <sup>financial situation of Mrs. Holl</sup> Larry P. said he would ~~inform~~ <sup>informed</sup> Larry of imminent hazard ~~at~~ <sup>at</sup> ~~Larry P~~ instructed me to leave immediately for Raleigh to ~~call~~ <sup>call</sup> Bill Meyer. He would call Bill to initial Emergency Response. Left 12:30pm

1:15pm Met with Bill Meyer <sup>Steve Reed</sup> showed photos of Ross Rd site. Bill agreed that an Emergency ~~exist~~ <sup>exists</sup> and would begin process to free up Emergency funds to eliminate <sup>im</sup> hazard

- Contacted Emergency Management, Dwayne Moore to alert Durham Co. and Durham City to situation & set up site security ASAP.

- Bill, at my request, contacted 4 season Industrial Services to respond.

2:30 - I arrived back at Holloway Property. No response as of yet. Used neighbors phone to call Raleigh to inform of present status.

3:15 - Durham Co Deputy arrived.

3:20 - Four Season Arrived to access site. (Ed Setzer

3:40 - Emergency Management Bill <sup>520 4517</sup> Cotley Arrived. with Durham City Fire and Hazmat Team. (CAPT J.S. Krokowski & Tony Mangun.) to provide backup.

4:15 - Obtain approval to funding ER. Four Season ER Crew arrives Project Mgr. Ken Webb. 273 2718. Funds to remove immediate hazard & stabilize sit.

5:20 - Ken I instruct Ken Webb to stabilize <sup>remove</sup> Potassium Cyanides, <sup>expand</sup> Containers. (2) Work begins. Emergency Site # NCTMP 0003036

5:45 - Dr. Ken Rudo (733-3410) Toxicologist, N.C. suggest that Cadmium salts be removed also. I agreed & Cadmium was added to the action.

9:40 MATERIAL in question removed, site secured. MATERIAL will be transported to GSX Reidsville for further profiling for proper ID.

8:00 AM  
5-15-91 Met with Larry Perry at Holloway Property. Toured site. Checked available file at site from reports for possible responsible parties

9:00 Steve Reed paged to find out possible cost. Ken Webb estimated about \$15,000.

9:00: Ken Rudo - ASK him to CONTACT LINDA Robinson 596 3644. Linda Robinson Live behind the site. She said that in the '70's Chemical were dump on ground. She fear that her well may be contaminated. Ken agreed to ASSIST HER.

9:15 Tim Donaldly - DEM - Left Message for Jay Zimmerman, supervisor ground H<sub>2</sub>O, to be alerted of possible contamination.

3:00 Meeting in Bill Meyer's OFFICE ATTENDING JACK Butler - CERCLA, Jerry Rindos - NCHWS, Judy Bulla - Attorney General, Larry Perry - NCHWS & Terry Waddell - NCHWS, Bill Meyer DSWM. Reason for meeting was to decide the next course to take after emergency response.

(1) Call EPA immediate removal team to evaluate the site for possible EPA funded action

(2) Identify all responsible parties.

(3) Check to find out if the Building is on a septic tank system.

5-16-91 - Met with L. Perry and EPA TAT. Jim Hawkins, John Mason & DorAnn Danner for EPA evaluation - agreed with our conclusions - site stable & secure.

5-16-91 - Durham (O.H.L.) - NO Record of a septic tank being installed

5-16-91 - Peggy Holloway - indicated that Bldg is on a septic tank but has City H<sub>2</sub>O. Holloway's purchased property from Gerald Thacker MAY 10<sup>th</sup> 1971. Tim to purchase Thacker lived in house, on property and operated Supreme Finishing for 13 years (1966). Mr. Ely Holloway operated Supreme Finishing from 1979 to 1987. Only did finishing work such as painting. Mr. Holloway said that all

DEPARTMENT OF HUMAN RESOURCES  
DIVISION OF HEALTH SERVICES  
ENVIRONMENTAL HEALTH SECTION

REPORT OF INVESTIGATION OR INSPECTION OF \_\_\_\_\_

Place visited \_\_\_\_\_ Date \_\_\_\_\_ 19\_\_

Address \_\_\_\_\_ Time spent \_\_\_\_\_

By whom \_\_\_\_\_

Persons contacted \_\_\_\_\_  
(Owner, agent, tenant, manager, other)

Reason for visit \_\_\_\_\_

Copies to:

**REPORT:**

of their business activities (Supreme Finishing) is in file cabinet on site including a purchase inventory form from Thacker.  
- Affidavit Filed for bankruptcy Dec of 1989 (Chapter 11)

# FOUR SEASONS INDUSTRIAL SERVICES, INC.

Post Office Box 16590, Greensboro, North Carolina 27416 919-273-2718

Client: NC Dept. of Environment Health  
 Job Location: Natural Resources  
Holloway Property  
Fountain Rd Durham, NC  
 Billing Address: NC DE HNR  
P.O. Box 27687  
Raleigh, NC 27611-7687

Job #: 91-50077  
 P.O.S.: \_\_\_\_\_  
 Date: 5/14/91  
 Prepared By: K. Webb  
 Contact: Terry Waddell  
 Phone: (919) 733-2178  
 TIME & MATERIAL  CONTRACT

(11 hours past 5 pm @ OT Rates)

CODE	Reg-Hrs	O.T.-Hrs	Name	CODE	Reg-Hrs	O.T.-Hrs	Name
PR01	1.5	5.5	K. Webb *	PR06	1.75	5.5	E. Setzer **
PR02	1.5	5.5	St. Richardson *	PR07	1.75	5.5	B. Pickard **
PR02	1.5	5.5	D. White *				
PR03	1.5	5.5	B. Gurdowski **				Greg J. Wilcox
PR03	1.5	5.5	J. Wilcox *				R. Gurdowski

CODE	Quantity	Miles	Trans-Unit	CODE	Quantity	Miles	Trans-Unit
TV05	1 day	220	ER Van - ST9				
TV09	1 day	120	PU 29				
TV09	1 day	120	PU 16				
TV05	1 day	120	PU 2				

CODE	Hours	Equipment Units	CODE	Hours	Equipment Units
TV09	1 day	PU 16 Pickup	ES04	1 day	OVA
TV07	1 day	PU 2 Service Truck	ES06	1 day	CEL/O2
TV05	1 day	ER Van	ES07	1 day	PU 2
TV09	1 day	PU 290 Pickup	ES03	1 day	Mobil Phone (2 ea)
TV02	1 day	PU 6 Pump truck ***	EL10	1 day	Generator
			EL11	1 day	Lights

\*\*\* from nearby project with B. Pickard (NO pumping required)

CODE	Quantity	Materials / Supplies	CODE	Quantity	Materials / Supplies
MG01	2 rolls	Barricade Tape	ES13	3 sets	SCBA Units
MG03	1 roll	Poly (1/4 roll only)	ES02	3 set	PTT Headset
MG04	5 ea	Dura liners	MS09	20 pr	Surgeons Gloves
MG05	2 roll	Dura tape	MS04	3 sets	Chamma (Level B)
MS08	4 pr	Nitrile gloves	ES16	5 ea	Wilson full face
MS02	6 ea	Yellow gloves	MS06	7 pr	PVC gloves
MOTH	3	trash bags	MS18	6 pr	Cartridges T-05

CODE	Qty/Hrs	Other Descriptions	CODE	Qty/Hrs	Other Descriptions
EO01	1 ea	Cumene Alona	DR06	2 ea	Cumide
EO01	1 ea	Dragee tubes & Pump	DR01	2 ea	Acid (overpacks)
MG21	2 ea	Poly overpacks	DR06	3 ea	Cadmium salts (1 OP)
MG24	9 ea	Math 55 ea (MTH)	DR01	2 bags	PPE
MG22	2 ea	Poly 55 ea (overpack)	MOTH	2 ea	arm thieves (5 ea)
MOTH	14.77	Adlock (Oilwhit)			

Description of Services: Leave GSO 3:30 pm, arrive 4:15 pm; \*\* leave from Henderson NC arrive 3:15 pm secure containers to direction of State OSC remove all drums of containerized material to TDE (land/law) for any analysis and disposal necessary

off site 9:30 pm  
1 hr Demob  
 (Note: This is not an invoice or a complete inventory of items and materials for this project, but a total up to this date)  
 Employee Signature: \_\_\_\_\_ Client Signature: \_\_\_\_\_



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

RECEIVED

FEB 01 1993

SUPERFUND SECTION

JAN 28 1993

Ms. Pat De Rosa  
Superfund Section  
P.O. Box 27687  
Raleigh, NC 27611-7687

RE: Request for Site Information

Dear Ms. De Rosa:

The following documents are being sent to you, per Bill Steiner's request.

Should you have any questions or need any further assistance or information, please contact me, Tracy Palmer, at (404) 347-3931.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Tracy Palmer", enclosed in a hand-drawn oval.

Tracy Palmer  
Emergency Response

RECEIVED

FEB 1 1993

SUPERFUND SECTION

SUPREME FINISHING  
3033 Ross Avenue  
Durham, NC

Ref No. 05671  
EPA Id NCD986188878

Removal Action: Michael Taylor, OSC  
Started: 08/18/92  
Completed: -----



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

RECEIVED

FEB 1 1993

SUPERFUND SECTION

YELLOW

ACTION-MEMORANDUM

DATE: AUG 06 1992

SUBJECT: Removal Authorization for the Supreme Finishing Site  
Durham, Durham County, North Carolina

FROM: Michael Taylor, On-Scene Coordinator  
Emergency Response and Removal Branch

TO: Joseph R. Franzmathes, Director  
Waste Management Division

I. PURPOSE

The purpose of this Action Memorandum is to request and document approval of the proposed removal action described herein for the Supreme Finishing Site, Durham, Durham County, North Carolina, hereafter referred to as the "Site".

II. SITE CONDITIONS AND BACKGROUND

The Site is an abandoned plating and painting facility located in a predominantly residential neighborhood adjacent a vacant house. The facility contains various drums, vats, and containers all of which contain hazardous substances as defined in Section 101 (14) of CERCLA, as amended, 42 U.S.C. § 9601 (14). There are minimal site controls in place. The windows and doors have been secured with "NO TRESPASSING" signs mounted around the perimeter. The Site was referred to the Emergency Response and Removal Branch (ERRB) by the Waste Management Branch for North Carolina Department of Natural Resources (NCDNR).

A. Site Description

1. Removal Site Evaluation - On May 15, 1991, EPA Emergency Response and Removal Branch (ERRB) responded to a report from the Hazardous Waste Section for NCDNR, that an abandoned plating facility had a release of hydrogen cyanide gas and contained approximately 40 drums of cyanides, acids and salt wastes. EPA was informed that "conditions immediately dangerous to life

1WD/OSC  
Taylor  
Taylor  
7-30-92

4WD/Chief RMS  
Steiner  
JCS  
7-30

4WD/Chief ERRB  
LARR  
JCS  
for  
7-31

4WD/Assoc. Director-WMD  
Superfund  
GREEN  
[Signature]  
8/3/92

and health (IDLH) existed at the Site". The State hired Four Seasons Industrial Services to overpack and remove nine hazardous waste containers which were sent to Laidlaw Environmental Services in Reidsville, North Carolina. The State claimed their funds were exhausted and could not continue to pursue Site activities. However, hazardous substances on-site continue to present an imminent and substantial endangerment to the public and the environment.

Upon arrival the responding On-Scene Coordinator (OSC), accompanied by the Technical Assistance Team (TAT), found an abandoned block frame building with a small metal storage shed directly behind the main structure. The building is in the middle of an established residential neighborhood. Directly adjacent the Site exists a wooded lot with a drainage ditch to carry runoff from the Site into a pond nearby. TAT conducted perimeter and interior air monitoring. The Hazardous Waste Branch from the State of North Carolina removed the cyanide drums prior to EPA arrival. Air monitoring revealed IDLH conditions no longer existed.

A preliminary assessment was conducted by EPA and discovered the presence of various quantities of hazardous and unknown chemicals. The facility consists of five specific work areas that contain 12 open vats, approximately 400 containers of paint and solvents as well as several small quantity containers labelled "flammable". In addition 85 drums with volumes of 30 and 55 gallons are stored throughout the building. Several drums contain flammable and corrosive substances. Numerous drums show signs of pressure and bulging around the lids. The facility includes a dry-kiln, spray booths for painting with a small metal shed located on the back section for storage of approximately 150 containers. The shed storage contains corrosive and flammable containers packed to capacity that are deteriorating and leaking. The main facility and shed are minimally secure.

There is documentation of soil contamination around the perimeter of the facility. Soil sampling and analysis detected elevated metal levels around a drainage area behind the building. This area is suspected to have been caused by a drainage pipe installed by the original owner/operator in 1966.

2. Physical Location - The Site is located at 3033 Ross Road in Durham, North Carolina. This facility is found eight miles southeast of downtown Durham and 12 miles north of Raleigh. Residential single-family homes are directly adjacent the Site. Approximately 20 residential homes with a substantial number of children are located within a one block area. Highway 98 is less than a mile from the Site. The CSX railroad track is three blocks due west in a light industrial setting. Two churches are located less than a mile northwest of the Site. Ross Road is a local schoolbus route for the area.

3. Site Characteristics - Durham county officials condemned the building prior to State and ERRB involvement. The Site consists of an abandoned plating facility that currently stores drums, vats and various containers of plating wastes. The Site poses a potential fire and explosion threat that would affect approximately three to five thousand people within a mile radius. A portion of the property has been placed for sale with a local realtor.

There have been claims that open dumping and releases into the environment took place around the perimeter of the facility during operations from a former owner and operator. Evidence indicates there are elevated metal levels within the soil adjacent the facility. A drainage ditch flows along one side of the facility into a local pond where livestock obtain water. Overflow from the pond flows into an adjacent drainage ditch away from the Site.

4. Release or threatened release into the environment of a hazardous substance or pollutant or contaminant - The following substances were found as a result of sampling containers and soil on-site. These samples were collected on November 19, 1991.

<u>Hazardous Substance</u>	<u>Concentration</u>	<u>Location</u>
Toluene	520,000 mg/l	Sample #1
Xylene	24000 mg/l	Drum
Ethyl Benzene	4800 mg/l	
Flashpoint F	< 140	
Barium (total)	140 mg/l	Sample #2
Chromium (total)	3700 mg/l	Vat
pH	1.34	
Cyanide	10 mg/kg	Sample #3
pH	9.92	Vat

<u>Hazardous Substance</u>	<u>Concentration</u>	<u>Location</u>
Cyanide	8.3 mg/kg	Sample #6
pH	14	Drum Shed
Cadmium	42,000 mg/l	Sample #7
Chromium	420 mg/l	Vat
Lead	140 mg/l	
pH	< 2.0	
Barium	440 mg/kg	Sample #8
Chromium	1500 mg/kg	Soil NW
Lead	130 mg/kg	Bldg.
Barium	130 mg/kg	Sample #9
Chromium	250 mg/kg	Soil NW
Cyanide	7.2 mg/kg	Corner

5. NPL Status - The Site is not listed on the NPL.

B. Other Actions to Date

1. Previous Actions - ERRB responded to a call from NCDNR on May 15, 1991 concerning a cyanide gas release and drums of cyanides, acids, and bases inside a facility within a residential neighborhood. The State of North Carolina was on-site and conducted a small removal of nine cyanide drums. EPA responded and performed a preliminary site investigation. The State of North Carolina continued to control the Site and attempted enforcement actions. The State notified the owner of the property with a "NOTICE OF VIOLATION" along with a "COMPLIANCE SCHEDULE" on May 31, 1991. A deadline for remediation by the owner was set for September 1, 1991. The deadline passed with no response from the owner.

In November of 1991 EPA ERRB conducted a site assessment and sampling analysis to determine all contaminants on-site. ERRB, accompanied by the State, obtained 11 samples from containers and soil at the Site.

The State continued control of the Site and enforcement actions through March of 1992. The Site was vandalized in April of 1992 allowing the threat of human contact as well as a fire and explosion threat. EPA secured the Site from local exposure and the immediate threat to the public. "Hazardous" indicators were placed

on-site to warn potential trespassers and vandals. The local law enforcement was notified and requested to patrol the Site.

Information Request letters and Notice of Liability were submitted to all Potentially Responsible Parties (PRP) in May of 1992.

2. Current Actions - Currently the Site is being monitored by EPA. Information requests from the PRPs are being reviewed by EPA. EPA's Office of Regional Counsel (ORC) is obtaining access to the property.

C. State and Local Authorities' Role

1. State and Local Actions to Date - The State of North Carolina controlled the Site from initial response in May of 1991 until March of 1992. No legal action has been undertaken by the State or local authorities.

2. Potential for Continued State/Local Response - It is unlikely that any State or other political subdivision will undertake any response activity on this Site in the future due to the lack of available funding.

III. THREATS TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT, AND STATUTORY AND REGULATORY AUTHORITIES

A. Threats to Public Health or Welfare

The Site contains various substances and containers posing a direct human contact threat as well as a fire and explosion threat to the public and environment.

The Agency for Toxic Substances and Disease Registry (ATSDR) has been consulted concerning local health risks from the Site. In consideration of the fire and explosion threat from hazardous substances and wastes on-site, as well as its proximity to the local population, ATSDR views the Site as a health threat to the neighborhood and recommends a removal action.

The facility contains open vats of acids, strong oxidizers and wastes. The vats are badly deteriorated with indications of seepage from piping. In addition, there is documentation of open drums and containers which have released their contents onto the facility floor. There have been pH readings taken from the facility floor that reveals a pH level of less than 2 units.

Flammable and/or corrosive labels are found on 50 percent of the containers in the main facility and storage shed.

An air release from a fire and/or explosion from the Site would cause harmful vapors and gases to immediately affect the nearby population.

There are residents located within 100 feet of the Site. This facility operated in the middle of a predominately residential neighborhood. Duke University Hospital is located within four miles and the Raleigh-Durham Airport is located within eight miles of the Site. A public school is located within one mile, as well as three churches and a small shopping area is in the vicinity. Approximately three to five thousand people would be affected within a mile radius if a fire and/or explosion were to occur.

The Site was subjected to vandalism in April of 1992. This presents a continued health threat to the public as long as there are hazardous substances and waste on-site. There have been threats of burning the Site on numerous occasions by anonymous telephone calls and letters. In addition, there are claims that drums may have been buried behind the facility.

#### B. Threats to the Environment

The potential for a fire and/or explosion at this Site presents a definite environmental threat through air releases of poisonous gases and vapors. In addition, a release of the hazardous substances would contaminate the surrounding soil as well as surface and groundwater.

#### IV. ENDANGERMENT DETERMINATION

Actual or threatened releases of hazardous substances from this Site, if not addressed by implementing the response action selected in this Action Memorandum, may present an imminent and substantial endangerment to public health, welfare or the environment.

#### V. PROPOSED ACTIONS AND ESTIMATED COSTS

Removal of hazardous substances and off-site RCRA disposal is the only feasible solution for mitigating threats posed by the situation. Site stabilization without disposal would provide only a temporary solution for the Site.

A. Proposed Actions

1. Proposed Action Description - The following actions are proposed for this Site:

- (a) Contain hazardous liquids from the vats.
- (b) Overpack all leaking containers (drums, cans, canisters).
- (c) Segregate and stage all containers on-site.
- (d) Conduct compatibility tests and develop appropriate waste groups for disposal.
- (e) Conduct and obtain soil samples to determine extent of soil contamination around the Site.
- (f) Perform core sampling of the facility to determine soil contamination.
- (g) Determine if there are buried drums on the property.
- (h) Excavate contaminated soil and perform confirmation sampling.
- (i) Arrange for disposal of all hazardous waste to a permitted waste facility.

Confirmation of soil contamination beneath the facility floor may be required. There exists the strong possibility of contamination beneath the concrete and gravel flooring since the facility started operations in 1966. Future sampling and analysis may warrant demolition of the facility. The extent of contamination may increase the ceiling costs for the Site in the future.

2. Contribution to Remedial Performance - This removal action will abate the immediate threats identified in the preceding sections of this Action Memorandum. No further actions are foreseen after removal is complete.

3. Description of Alternative Technologies - Alternative technologies will be considered once the extent of Site contaminants and waste are known.

4. Applicable or Relevant and Appropriate Requirements (ARARs) - The Federal ARARs determined to be appropriate for the Site are the Resource Conservation Recovery Act (RCRA), and the Toxic Substance Control Act (TSCA). Off-site disposal will be conducted in accordance with EPA's Off-Site Disposal Policy as referenced in 53 FR 48218-48234 dated November 29, 1988.

5. Project Schedule - Response action at this Site will be initiated upon approval of this Action Memorandum. Foregoing any unexpected delays, all actions are expected to be completed within six months.

B. Estimated Costs

Extramural Costs:

Regional Allowance Costs:(ERCS)	\$347,350
(15% contingency)	<u>52,103</u>
Subtotal	399,453

Other Extramural Costs Not Funded From the Regional Allowance  
 Total TAT, including multiplier costs \$ 36,500

Subtotal, Extramural Costs	\$435,953
Extramural Costs Contingency (20%)	<u>87,190</u>
TOTAL, EXTRAMURAL COSTS	\$523,143

Intramural Costs:

Direct (400 hrs at \$30/hr)	\$ 12,000
Indirect (400 hrs at \$54/hr)	<u>\$ 21,600</u>

TOTAL, INTRAMURAL COSTS	\$ 33,600
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TOTAL, REMOVAL PROJECT CEILING	\$556,743
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VI. EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN

If action is delayed there is an increased risk of a release to the environment, and an increased risk of fire/explosion, posing a danger to the public health and welfare.

VII. OUTSTANDING POLICY ISSUES

An issue at hand pertains to the State of North Carolina and its off-site disposal situation. The State of North Carolina failed to site its incinerator within the State, which was a requirement of the Southeastern Waste Compact. In reaction to this, some states have attempted to restrict shipment of RCRA and CERCLA wastes from North Carolina. EPA will be considerate of this issue during cleanup and disposal activities.

VIII. ENFORCEMENT

"Enforcement Sensitive"

**IX. RECOMMENDATION**

This decision document represents the selected removal action for the Supreme Finishing Site, in Durham, Durham County, North Carolina, developed in accordance with CERCLA as amended and not inconsistent with the NCP. This decision is based on the administrative record for the Site. Conditions at the Site meet the NCP section 300.415 (b)(2) criteria for a removal and I recommend your approval of the proposed removal actions. The total project ceiling, if approved, will be \$556,743. Of this, an estimated \$347,350 comes from the Regional removal allowance.

Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Disapproval: \_\_\_\_\_ Date: \_\_\_\_\_

"Enforcement Sensitive"

The State of North Carolina Hazardous Waste Section notified EPA ERRB in response to a cyanide gas release from an abandoned facility containing additional drums of hazardous substances on May 15, 1991. EPA responded to provide assistance to the State. The State of North Carolina issued a Notice of Violation along with a Compliance Schedule to the landowner (PRP) on May 31, 1991. The deadline set by the State for response was September of 1991. The deadline passed and with no response from the PRP.

There are three identified PRPs, Gerald Thacker, Elry and Peggy Holloway, and Al Shakir of Dynamic Industries. Gerald Thacker was the original owner and operator of the Site. Mr. Thacker operated a painting and plating facility from 1966 until it was liquidated in 1978. He then sold the property along with the business and all contents to Elry and Peggy Holloway in May of 1979. Mr. Thacker claims no responsibility to this Site and has refused to participate in removal actions. The Holloways continued operations until June of 1987. The business was then leased to Dynamic Industries for spray painting and parts shipping purposes from June of 1987 until August of 1990. The Site has been vacant and abandoned since Dynamic Industries left the premises. Elry and Peggy Holloway filed Chapter 11 bankruptcy in June of 1991. The Holloways claim they are not financially capable of addressing the Site and offer little concern over the threats this Site poses. The Holloways have refused to respond to Information Requests from EPA. They have refused to assume any responsibility for addressing the Site. There have been comments to EPA from Peggy Holloway stating she wishes the State or EPA would tear down the building. Al Shakir has filed Chapter 13 personal bankruptcy in November of 1991. Upon reviewing the financial statement submitted by Dynamic Industries it reveals the company is financially unable to conduct a removal at this time.

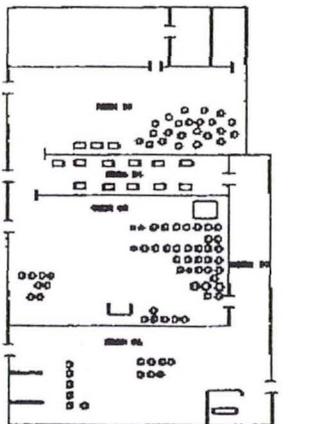
Site was vandalized in April of 1992. All windows and doors were broken allowing the threat of human contact and greater threat of a fire and/or explosion to occur. Several of the Site containers were reported moved and thrown around on-site. EPA secured the facility after the landowner refused to address the problems because they were financially unable to respond. Since this event occurred there have been several threats, verbal and written, stating the facility would be torched. In addition, anonymous phone calls have been made to officials with the Hazardous Waste Branch of the State of North Carolina stating the Site will be torched and burned. EPA received an anonymous letter in June of 1992 stating a PRP offered \$1,000 to have the Site burned. The local Durham County Arson Section as well as the Federal Bureau of Investigations (FBI) was notified of these threats.

RECEIVED  
FEB 1 1993  
SUPERFUND SECTION

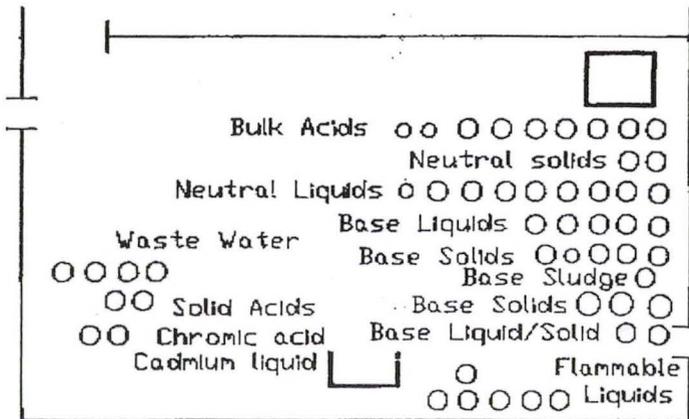


Ross Road

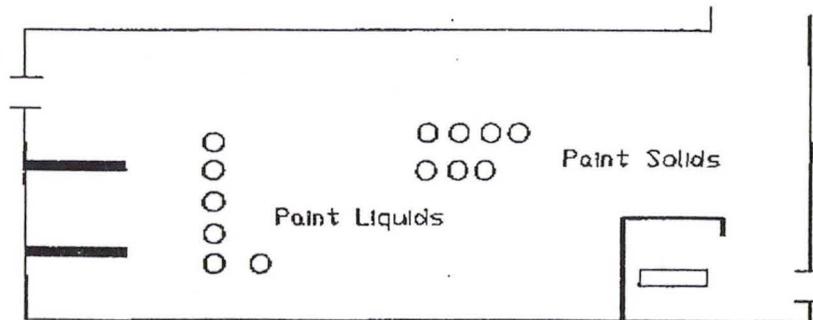
Fountain Street



SITE BUILDING



ROOM #5



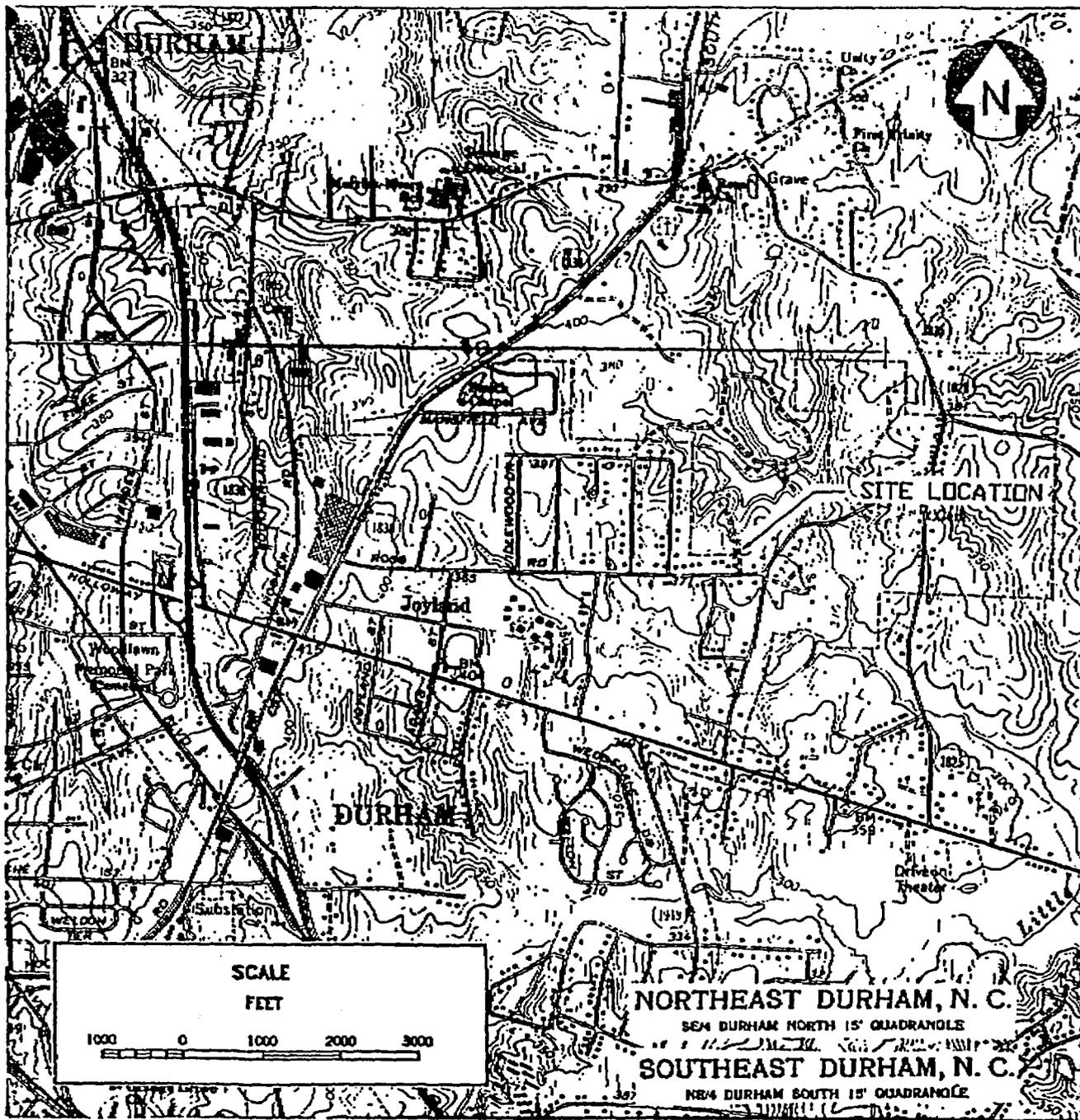
ROOM #6

NOTE: STAGED MATERIALS PRIMARILY 55 GAL. DRUMS

SUPREME FINISHING SITE  
STAGED MATERIALS  
DURAHM, DURHAM COUNTY, NC  
TDD # 04-9208-1019-0597



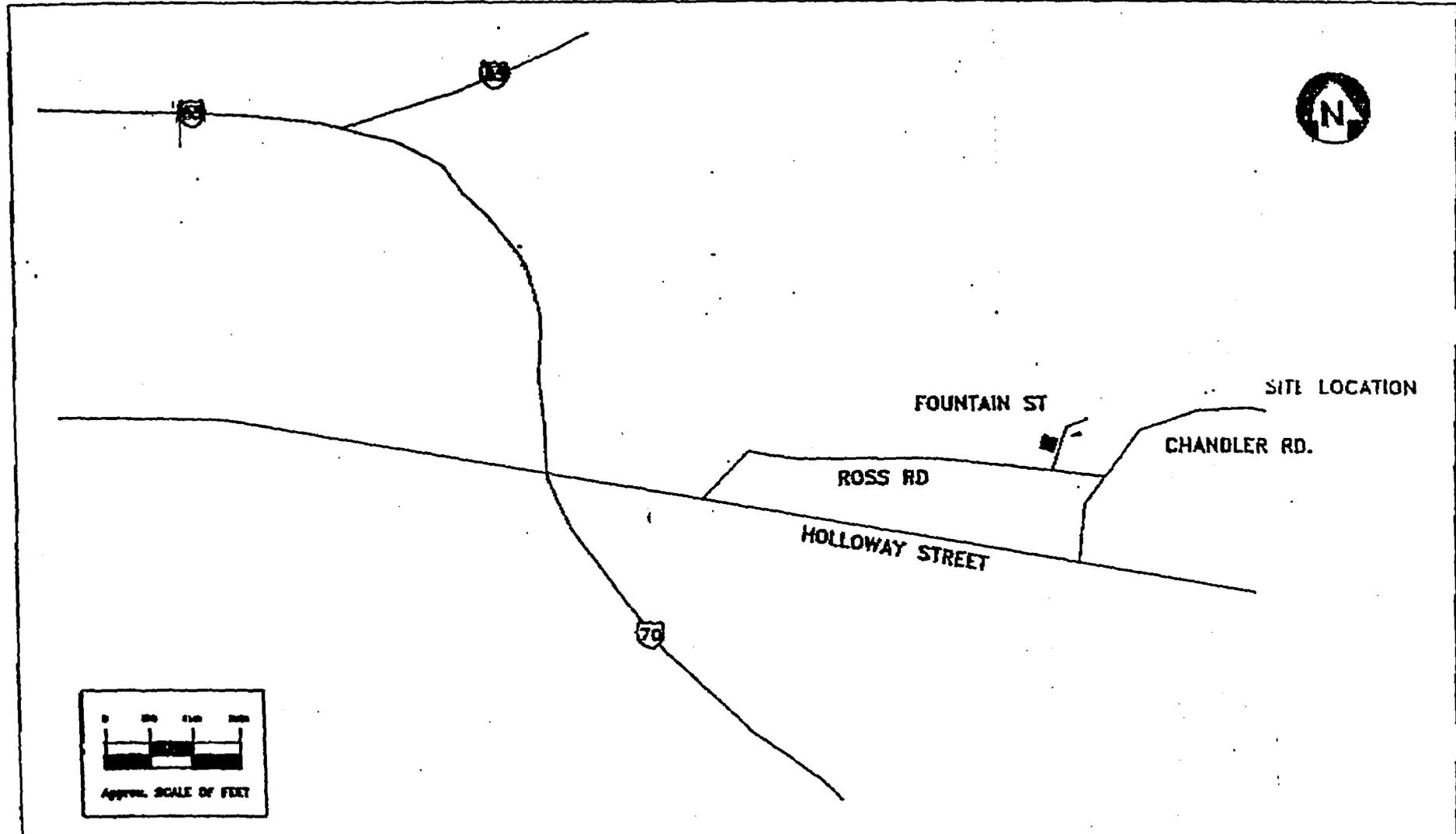
**WESTON** MAJOR PROGRAMS DIVISION  
REGION IV TECHNICAL ASSISTANCE TEAM



SUPREME FINISHING SITE  
DURHAM, DURHAM COUNTY, NC  
TDD #04-9208-L019-0597  
SITE TOPOGRAHY MAP



**WESTON** MAJOR PROGRAMS DIVISION  
REGION IV TECHNICAL ASSISTANCE TEAM



SUPREME FINISHING SITE  
 SITE AREA MAP  
 DURHAM, DURHAM COUNTY, NC  
 TDD #04-9208-L019-0597

**WESTON** MAJOR PROGRAMS DIVISION  
 REGION IV TECHNICAL ASSISTANCE TEAM

WLOI UN INC. TEL: 404-332-0039 JBC 04.92 11:29 AM '03 F.03



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

*Terry  
Pst  
Larry  
Kathleen*

May 5, 1992

JUN 04 1992

HAZARDOUS WASTE SECTION

R. Douglas Holyfield  
State of North Carolina  
Division of Solid Waste Management  
P.O.Box 27687  
Raleigh, North Carolina 27611-7687

RE: Supreme Finishing - 3033 Ross Road  
Durham, North Carolina

Dear Mr. Holyfield:

I received your letter dated April 28, 1992 with regards to the Supreme Finishing Site. I appreciate the information concerning the the property for sale and the report of vandalism to the structure adjacent the house. Since this notification, EPA has taken precautions to secure the Site and continues to carry out enforcement proceedings.

Upon receipt of your notification I contacted the realtor for the property, Amy Pomerantz, as well as the landowner, Peggy Holloway. I received minimal concern from Ms. Holloway over securing the property. Since our conversation I have tasked our Technical Assistance Team (TAT) to secure the Site and perform an assessment of the current situation.

EPA is in the process of sending "Notifications of Liability" to the known Potentially Responsible Parties (PRPs). In addition, information requests and a access agreement is underway.

The State of North Carolina will be informed of all future activities pertaining to this Site. I would appreciate any reports by your division of changes that occur while awaiting our information requests. Contact me at (404) 347-3931 if there are any questions or comments.

Sincerely,

Michael Taylor, OSC  
Emergency Response & Removal Branch

# MEMO

DATE: 1/31/91

TO: Pat De Rosa

SUBJECT: SUPREME FINISH

Attached is a copy of our file pertaining to the site I spoke to you about recently. It appears to be an abandoned metal plating facility. It has a fairly low rank associated with it, primarily due to a lack of data specific to the site. Since we cannot find a responsible party and because it involves hazardous materials, we request that you look into this matter and advise our office if it falls within your regulatory jurisdiction.

Thanks

From: Jay Zimmerman

RECEIVED

AUG 02 1991

SUPERFUND SECTION



North Carolina Department of Environment,  
Health, and Natural Resources



Printed on Recycled Paper

# POLLUTION INCIDENT/U.S.T. LEAK REPORTING FORM

Division of Environmental Management  
GROUNDWATER SECTION

1. Incident # \_\_\_\_\_  
2. Tabulate only \_\_\_\_\_

### TYPE OF ACTION

<b>A</b>	1. Emergency Response	3. Complaint Investigation	5. U.S.T. Leak
	2. Compliance Investigation	4. Routine Inventory	6. Other: _____
POTENTIAL HAZARDS: 1. Toxic Chemicals    2. Radioactivity    3. Air Emissions    4. Explosives    5. Fire			

### INCIDENT DESCRIPTION

<b>B</b>	Incident Location/Name <u>SUPREME FINISH COMPANY?</u>		
	Address _____		
	City/Town <u>DURHAM</u>	County <u>DURHAM</u>	Region <u>RALEIGH</u>
	Briefly Describe Incident <u>Report of toxic chemicals stored at site</u> <u>suspect metal plating chemicals</u>		
	Date Incident Occurred or Leak Detected <u>unk</u> <u>5/15/91</u>	If L.U.S.T., How Leak Was Detected	1. Tank Gauging                      5. Interstitial Monitoring            8. Other: _____ 2. Vapor Monitoring                6. Tank Removal                      _____ 3. GW Monitoring                    7. Tightness Test                    _____ 4. Contractor who tightness tested, removed tank, or installed leak detection system. _____

### PERSON REPORTING INCIDENT

<b>C</b>	Name <u>Dr. Ken Rudd</u>	Date <u>5/15/91</u>	Time _____
	Company/Agency <u>DSWM EPIDEMIOLOGY</u>	Telephone <u>733-3410</u>	
	REPORTED BY: 1. Tank owner/operator <u>2. Government agency</u> 3. Private (3rd) party 4. Facility owner (Non-L.U.S.T.)    5. Other: _____		

### RECOMMENDED ACTION

<b>D</b>	(MULTIPLE CHOICES POSSIBLE)			
	1. Investigation complete	3. Initiate/complete cleanup	5. Drilling support	7. Confirm leak
	2. Continue investigation	4. Long-term remedial action	6. Issue NOV	8. Monitoring plan
	Comments <u>Hazardous materials dump, overturned drums</u>			
CLEANUP LEAD		1. Responsible Party	Site Priority Ranking	
		2. State	<u>55</u>	
D.E.M. Regional Contact		Signature	Date	
<u>MARTIN RICHMOND</u>		<u>[Signature]</u>	<u>5/15/91</u>	

# POLLUTION INCIDENT/U.S.T. LEAK REPORTING FORM

## POLLUTANTS INVOLVED

	MATERIALS INVOLVED	AMOUNT STORED OR TANK CAPACITY	AMOUNT LOST	AMOUNT RECOVERED
<b>E</b>	<u>Heavy metals</u>	_____	_____	_____
	<u>solvents</u>	_____	_____	_____
	<u>cyanide</u>	_____	_____	_____

## IMPACT ON SURFACE WATERS

	WATERS AFFECTED	1. Yes	2. No	3. Potentially	Distance to Stream(ft)
<b>F</b>				<input checked="" type="radio"/>	<u>&gt; 500'</u>
	Fish Kill	1. Yes	2. No		Stream Class

## IMPACT ON DRINKING WATER SUPPLIES

	WELLS AFFECTED	1. Yes	2. No	3. Potentially	No. of Wells Affected	No. of Wells Potentially Affected
<b>G</b>				<input checked="" type="radio"/>		
	Population Served By Affected Wells				Estimated Population Served By Potentially Affected Wells	Aquifer(s) Being Used 1. Water Table 2. Confined <input checked="" type="radio"/> 3. Bedrock

## POTENTIAL SOURCE OF POLLUTION

	PRIMARY SOURCE OF POTENTIAL POLLUTION (Select one)	PRIMARY POLLUTANT TYPE (Select one)	LOCATION	SETTING
<b>H</b>	<input checked="" type="radio"/> 1. Intentional dump	13. Well	<input checked="" type="radio"/> 1. Facility	<input checked="" type="radio"/> 1. Residential
	2. Pit, pond, lagoon	14. Dredge spoil	2. Railroad	2. Industrial
	3. Leak-underground	15. Nonpoint source	3. Waterway	3. Urban
	4. Spray Irrigation		4. Pipeline	4. Rural
	5. Land application		5. Dumpsite	
	6. Animal feedlot		6. Highway	
	7. Source unknown		7. Residence	
	8. Septic tank		8. Other	
	9. Sewer line		9. Solid waste leachate	
	10. Stockpile		<input checked="" type="radio"/> 10. Metals	
11. Landfill		<input checked="" type="radio"/> 11. Other Inorganics		
12. Spill-surface		<input checked="" type="radio"/> 12. Other organics		
	If other sources, list corresponding No's.		Confirmed Violation of: 1. 15 NCAC 2L _____ Yes _____ No 2. Article 21A Part I <input checked="" type="checkbox"/> Yes _____ No 3. Article 21A Part II _____ Yes _____ No 4. Federal/State U.S.T. rules _____ Yes _____ No	
	If multiple pollutant types, list corresponding No's.			
	If PIRF previously submitted for Nonprimary Sources, list Incident No's.			

# POLLUTION INCIDENT/U.S.T. LEAK REPORTING FORM

## POTENTIAL SOURCE OWNER-OPERATOR

Potential Source Owner-Operator				Telephone
Company <i>SUPREME FINISH CO?</i>		Street Address		
City	County	State	Zip Code	
<b>U.S.T. REGISTERED</b> 1. YES 2. NO	<b>SOURCE/U.S.T. IN USE</b> 1. N/A 2. YES 3. NO	<b>PERMIT TYPE</b> 0. N/A 1. Non-discharge 2. Oil terminal 3. Landfill 4. Mining 5. NPDES 6. RCRA	<b>OWNERSHIP</b> 0. N/A 1. Municipal 2. Military 3. Unknown 4. Private 5. Federal 6. County 7. State	<b>OPERATION TYPE</b> 0. N/A 1. Public Service 2. Agricultural 3. Residential 4. Educational/Religious 5. Industrial 6. Commercial 7. Mining
FACILITY ID#	<b>SOURCE PERMITTED</b> 1. Yes 2. No			
FEDERAL U.S.T. DESIGNATION	PERMIT NUMBER			
1. Regulated 2. Non-Regulated	<b>SOURCE ON ERRIS LIST</b> 1. Yes 2. No			
STATE U.S.T. DESIGNATION	ERRIS NUMBER			
1. Commercial 2. Non-Commercial				
<b>U.S.T. LEAK PREVENTION MEASURES</b> Was tank retrofitted with overfill protection? 1. Yes 2. No When and by whom? _____ Was tank retrofitted with interior lining? 1. Yes 2. No When and by whom? _____ Was tank retrofitted with cathodic protection? 1. Yes 2. No When and by whom? _____				<b>REASON FOR INCIDENT</b> 1. Transportation 2. Mechanical failure 3. Facility 4. Inventory only 5. Human error 6. Vandalism 7. Unknown

## ACTIONS TAKEN

Investigation, Containment, Cleanup, etc.	<i>DSW conducted initial survey, contracted with Four Seasons for initial action, DSW collected (1) groundwater sample from Robinson Residence</i>			
Circle Appropriate Responses	1. D.E.M.	2. D.H.S.	3. Responsible Party	4. None
Lab Samples Taken By:	<i>1. D.E.M.</i>			
Samples Taken Include	<i>1. Groundwater</i>	2. Soil	3. Surface Water	<i>4. Pond sediment</i>

# POLLUTION INCIDENT/U.S.T. LEAK REPORTING

## LOCATION OF INCIDENT

7 1/2 Min. Quad Name

*South east Durham*

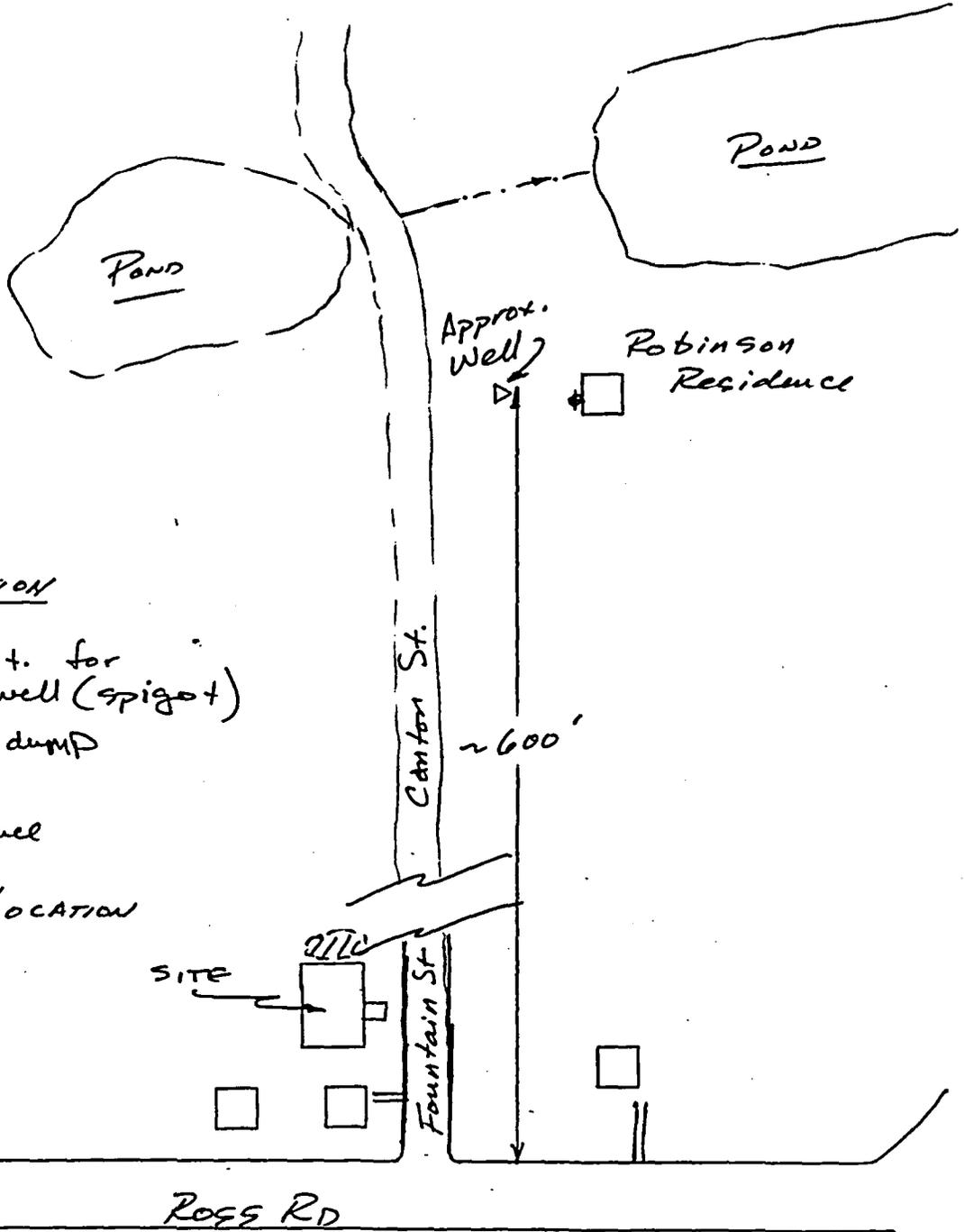
Lat. : Deg : Min : Sec : *35° 59' 35"*

Five Min. Quad Number

*I 42a*

Long. : Deg : Min : Sec : *78° 50' 24"*

Draw Sketch of Area



EXPLANATION

⊕ Sample pt. for domestic well (spigot)

||| Illegal dump

□ Residence

▷ WELL LOCATION

Sketch Should Identify The Following:

- |                               |  |  |
|-------------------------------|--|--|
| 1. Pollutant Source(s)        | 2. Impacted and Threatened Water Supplies      |  |
| 3. Direction of Overland Flow | 4. Significant Recharge and Discharge Features | 5. Relative Physical Structures (roads, buildings, etc.) |
| 6. North Arrow                | 7. Scale                                       |  |

Incident Name SUPREME FINISH  
 Region/County Kalich / Durham  
 Groundwater Incident File # \_\_\_\_\_  
 Ranking Performed by SJZ Date 5/15/91

NORTH CAROLINA

GROUNDWATER CONTAMINATION INCIDENT MANAGEMENT  
SITE PRIORITY RANKING SYSTEM

	<u>Points Awarded</u>
I. IMMEDIATE HAZARD ASSESSMENT	
A. Explosion - free product in confined areas or vapor phase product detected at or above 20% of the lower explosive limit; award 50 points total	_____
B. Fire - free product subject to ignition in exposed areas such as surface water impoundments, streams, excavations, etc.; award 50 points total	_____
II. EXPOSURE ASSESSMENT	
A. Contaminated Drinking Water Supplies	
1. Private, domestic water supply well containing substances in concentrations exceeding Class GA underground water quality standards; award 10 points per well	_____
2. Public or institutional water supply well containing substances in concentrations exceeding Class GA underground water quality standards; award 30 points per well	_____
3. Exceedences of Class WS-1 surface water quality standards as a result of groundwater discharge; award 20 points per surface water body impacted	_____
4. If a water supply well identified in items II.A.1 and II.A.2 cannot be replaced by an existing public water supply source requiring hook-up only; award additional 10 points per irreplaceable well	_____

B. Threat To Uncontaminated Drinking Water Supplies

1. Private, domestic water supply well located within 1500 feet downgradient of contaminant source; award 10 points per well
2. Public or institutional water supply well located within 1/2 mile downgradient of contaminant source; award 15 points per well
3. Raw surface water intake for public water supply located within 1/2 mile downgradient of contaminant source; award 5 points per water supply system
4. If any well identified in items II.B.1 and II.B.2 is located within 250 feet of contaminant source; award additional 20 points total

10

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

C. Vapor Phase Exposure

1. Product vapors detected in inhabitable building(s); award 30 points total
2. Product vapors detected in other confined areas (uninhabitable buildings, sewer lines, utility vaults, etc.); award 5 points total

5

III. CONTAMINANT HAZARD ASSESSMENT (chemical groups are categorized based on toxicity, mobility and persistence in the environment). Evaluate the most hazardous substances detected and select only one of the following:

A. Award 30 points total if contaminants detected are identified with any of the following groups:

30

1. Aromatic (Benzene) Acids
2. Aromatic Hydrocarbons (Benzene Derivatives)
3. Sulfonated Hydrocarbons
4. Halogenated Hydrocarbons
5. Alkaloids
6. Anilines
7. Phenols
8. Aldehydes
9. Ketones
10. Organic Sulfur Compounds (Sulfides, Mercaptans)
11. Organometallic Compounds

12. Cyanides
13. Esters
14. Metal Salts, Including Heavy Metals

B. Award 20 points total if contaminants detected are identified with any of the following groups: \_\_\_\_\_

1. Aliphatic (Fatty) Acids
2. Alcohols
3. Aliphatic Hydrocarbons (Petroleum Derivative)
4. Pyridines
5. Thiocyanides
6. Mineral and Metal Acids
7. Mineral and Metal Bases
8. Oxides
9. Sulfides

C. Award 10 points total if contaminants detected are identified with any of the following groups: \_\_\_\_\_

1. Aliphatic Amines and Their Salts
2. Sugars and Cellulose
3. Carbon and Graphite

#### IV. SOURCE ASSESSMENT

A. Free product thickness of  $> 1/4$  inch detected on water table in observation or monitoring well; award 20 points total \_\_\_\_\_

B. Contaminated Soil (select only one answer)

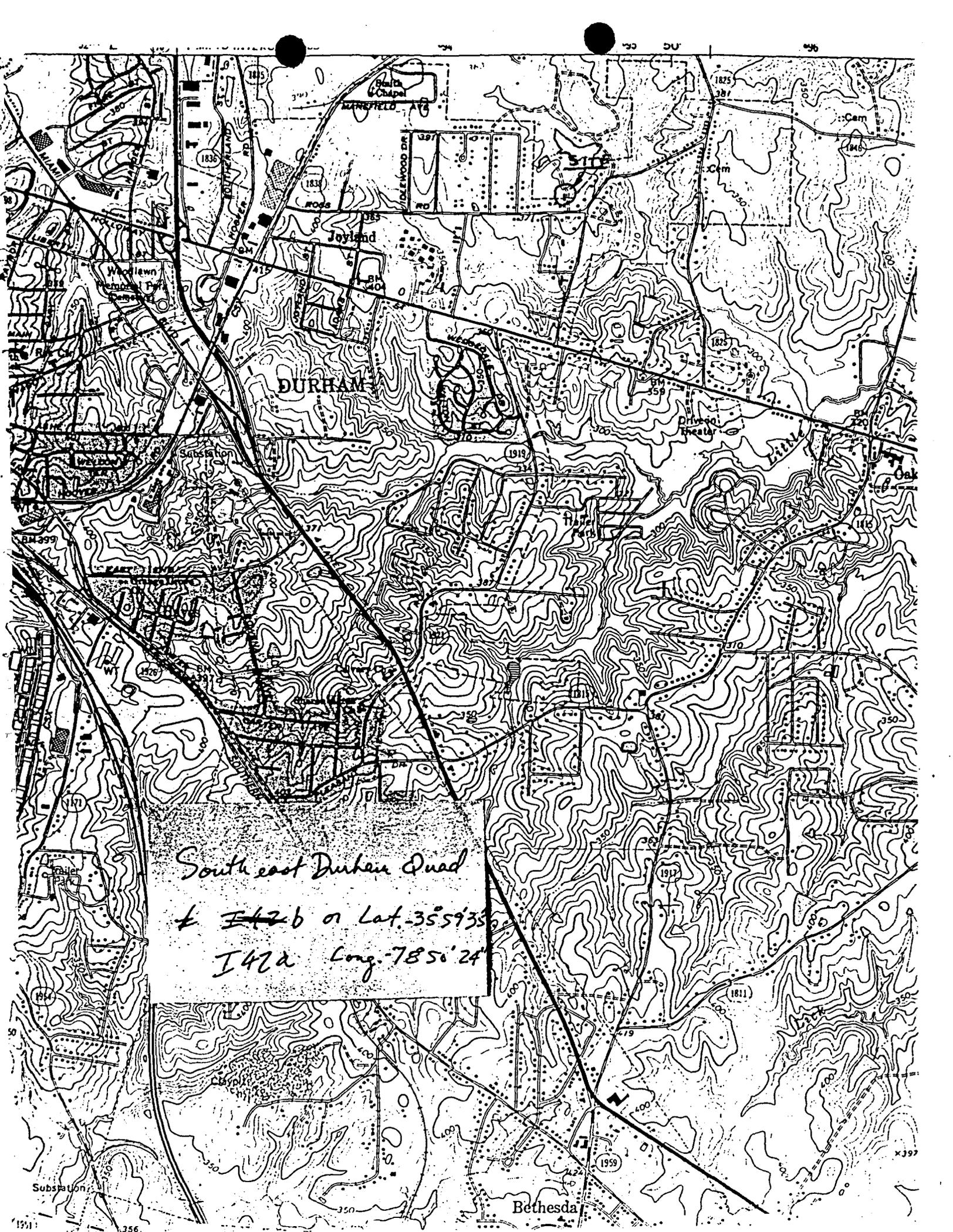
1. Soil saturated with product (saturation determined by release of free liquid upon compaction of a soil sample by hand pressure); award 10 points total \_\_\_\_\_
2. Soil exhibiting organic vapor content above 100 ppm as measured by organic vapor or volatile organic detection equipment; award 5 points total \_\_\_\_\_

C. Uncontrolled or Unabated Primary Source (including dumpsites, stockpiles, lagoons, land applications, septic tanks, landfills, underground and above ground storage tanks, etc.)

1. Suspected or confirmed source remains in active use and continues to receive raw product, wastewater or solid waste; award 20 points per source \_\_\_\_\_
2. Active use of suspected or confirmed source has been discontinued or source was caused by a one-time release of product or waste, however, source continues to release product or contaminants into the environment; award 10 points per source 10

V. ENVIRONMENTAL VULNERABILITY ASSESSMENT

- A. Vertical Contaminant Migration - Literature or well logs indicate that no confining layer is present above bedrock or above twenty feet below land surface; award 10 points total \_\_\_\_\_
- B. Horizontal Contaminant Migration - Data or observation- indicate that no discharge points or aquifer discontinuities exist between the source and the nearest downgradient drinking water supply; award 10 points total \_\_\_\_\_
- C. Hydraulic Gradient Is Determined By (select only one answer):
  1. Calculations based on groundwater level measurements; award 10 points total \_\_\_\_\_
  2. Observation of significant recharge/discharge features in the vicinity of contaminant source and local topographic features; award 5 points total \_\_\_\_\_
  3. Observation of local topographic features only; award 0 points \_\_\_\_\_
- D. Existing Groundwater Quality
  1. Analytical test(s) performed on groundwater sample(s) obtained from site confirm presence of substances in concentrations exceeding Class GA underground water quality standards; award 10 points total \_\_\_\_\_
  2. Source(s) identified in Section IV constitute the only known source(s) of contamination resulting in exposure or potential exposure identified in Section II; award 10 points total \_\_\_\_\_



South east Durham Quad  
± I42b on Lat. 35°59'35"  
I42a Long. 78°56'24"

Bethesda

DURHAM

Joyland

Mansfield

Cam

Cam

Drive-in Theater

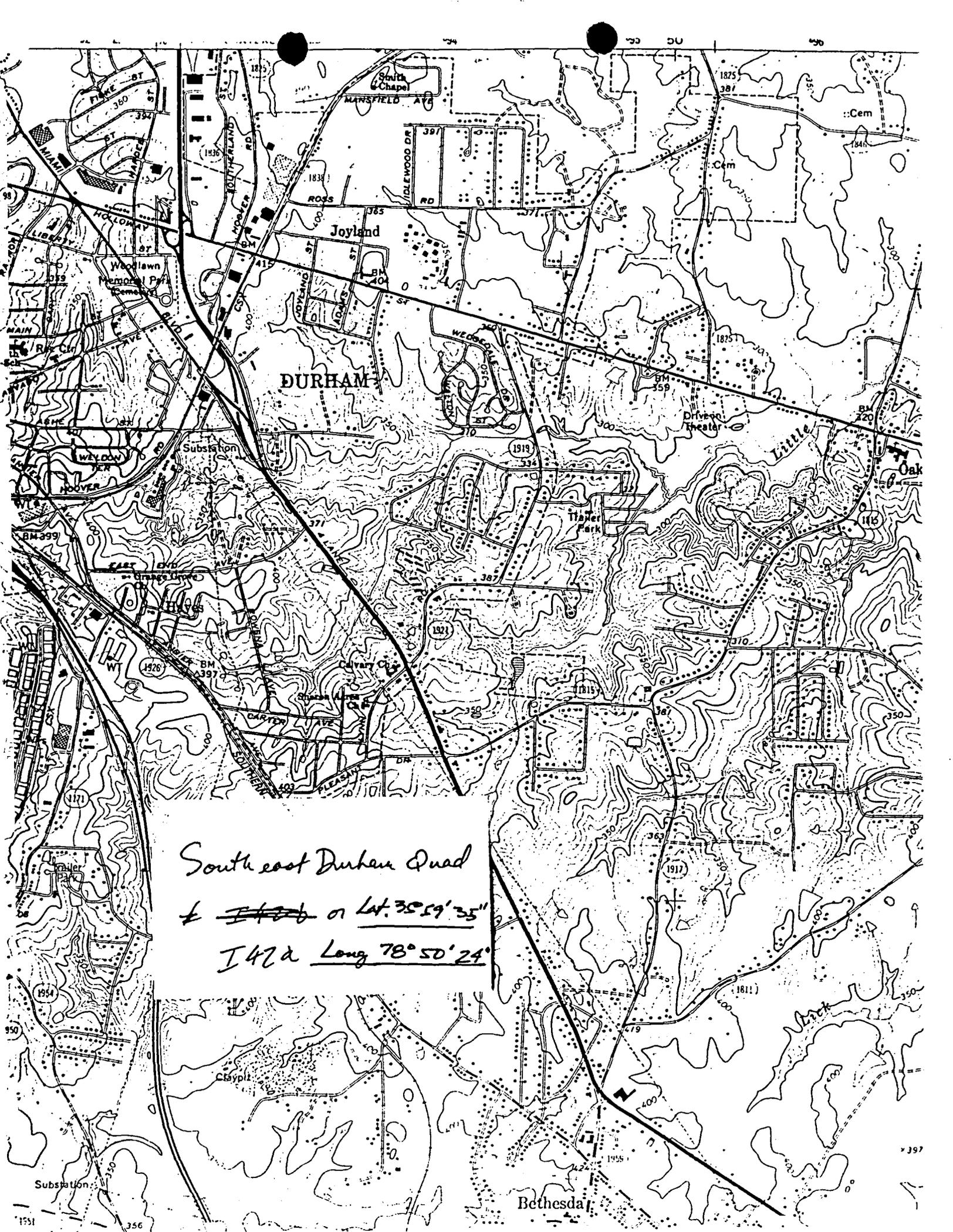
Oak

Substation

x 397

1951

356



South east Durham Quad  
± ~~I 42a~~ on Lat. 35° 59' 35"  
I 42a Long 78° 50' 24"

Bethesda



N.C. DEPARTMENT OF ENVIRONMENT, HEALTH,  
AND NATURAL RESOURCES

Division of Environmental Management

Chemistry Laboratory

4405 Reedy Creek Road

Raleigh, N.C. 27607

FAX: (919) 733-6241

FAX TO: Jay Zimmerman

FAX NUMBER: 733-7072

FROM: Diane Allen DEM/Chemistry Lab. PHONE: (919) 733-3908

NO. OF PAGES INCLUDING THIS SHEET 3

COMMENTS:

Jay,

Here is the copy of the Volatiles  
report for 15410. The metals should be  
ready by no later than Tuesday afternoon.  
Please feel free to call me to see if the  
results are here.

Thanks

Diane Allen

LABORATORY

VOLATILES ANALYTICAL REPORT

NO. 16 410

REPORTED BY W  
 PREPARED BY ABC  
 ANALYZED BY ABC

SUPERVISOR RJK  
 DATE 5/17/91  
 ENTERED BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

SAMPLE TYPE: WATER

ANALYSIS RESULTS

CAS#	VOA Target Compound	TQL ug/l	Conc Detected UG/L	MS	CAS#	VOA Target Compound	TQL ug/l	Conc Detected UG/L	MS
35-4	1,1-Dichloroethene	0.75		U	96-18-4	1,2,3-Trichloropropane	0.25		U
19-2	Methylene Chloride	0.25		U	108-86-1	Bromobenzene	1.00		U
10-5	trans-1,2-Dichloroethene	0.75		U	95-49-8	2-Chlorotoluene	0.25		U
34-3	1,1-Dichloroethane	0.25		U	106-43-4	4-Chlorotoluene	0.25		U
20-7	2,2-Dichloropropane	0.25		U	541-73-1	1,3-Dichlorobenzene	0.25		U
59-4	cis-1,2-Dichloroethene	0.25		U	106-46-7	1,4-Dichlorobenzene	0.25		U
6-3	Chloroform	0.25		U	95-50-1	1,2-Dichlorobenzene	0.25		U
7-5	Bromochloromethane	0.75		U	96-12-8	1,2-Dibromo-3-Chloropropane	1.00		U
55-6	1,1,1-Trichloroethane	0.25		U	120-82-1	1,2,4-Trichlorobenzene	0.25		U
58-6	1,1-Dichloropropene	0.25		U	87-68-3	Hexachlorobutadiene	0.25		U
7-5	Carbon Tetrachloride	0.75		U	87-61-6	1,2,3-Trichlorobenzene	0.75		U
1-2	1,2-Dichloroethane	0.25		U	71-43-2	Benzene	1.00		U
1-6	Trichloroethene	0.25		U	108-88-3	Toluene	1.00		U
1-5	1,2-Dichloropropane	0.25		U	100-41-4	Ethyl benzene	1.00		U
1-4	Bromodichloromethane	0.25		U	108-38-3	m,p-Xylenes	1.00		U
1-3	Dibromomethane	1.00		U	95-47-6	o-Xylene	1.00		U
1-5	cis-1,3-Dichloropropene	0.25		U	100-42-5	Styrene	1.00		U
1-6	trans-1,3-Dichloropropene	0.25		U	98-82-8	Isopropyl benzene	1.00		U
1-5	1,1,2-Trichloroethane	0.25		U	105-65-1	n-Propyl benzene	1.00		U
8-4	Tetrachloroethene	0.25		U	108-67-8	1,3,5-Trimethyl benzene	1.00		U
9	1,3-Dichloropropane	0.25		U	98-06-6	tert-Butyl benzene	1.00		U
1	Dibromochloromethane	0.75		U	95-63-6	1,2,4-Trimethyl benzene	1.00		U
4	1,2-Dibromoethane	1.00		U	135-98-9	sec-Butyl benzene	1.00		U
7	Chlorobenzene	0.25		U	99-87-6	p-Isopropyl toluene	1.00		U
5	1,1,1,2-Tetrachloroethane	0.25		U	104-51-8	n-Butyl benzene	1.00		U
2	Bromoform	1.00		U	91-20-3	Naphthalene	1.00		U
5	1,1,2,2-Tetrachloroethane	0.75		U					

- target quantitation limit
- tentatively identified compound
- estimated value
- compound was analyzed for but not detected
- not analyzed for this compound
- detected below quantitation limit
- X=GC/MS analysis performed
- subject to change due to instrument sensitivity

Conc Detected UG/L

Other purgeables (up to 10 highest peaks)

---

NO VOLATILE ORGANIC COMPOUNDS DETECTED BY GC/ELCD/PID.

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REMARKS:

COUNTY Durham  
 QUAD NO. I42 SERIAL NO. \_\_\_\_\_  
 LAT. \_\_\_\_\_ LONG. \_\_\_\_\_

N.C. DEPARTMENT OF NATURAL RESOURCES  
 & COMMUNITY DEVELOPMENT  
 DEM

LAB NUMBER 8 16410  
 DATE RECEIVED 9/15/91 Time 1550  
 Rec'd by: HMM From: Bus-Courier

(1)

Report to: ARO, FRO, MRO, ARO, YaRO, WIRO,  
 WSRO, Kinston FO Other \_\_\_\_\_

GROUNDWATER FIELD/LAB FORM

SAMPLE PRIORITY

ROUTINE  EMERGENCY

Other \_\_\_\_\_  
 DATA ENTRY BY: \_\_\_\_\_ CK: \_\_\_\_\_  
 DATE REPORTED: \_\_\_\_\_

Shipped by: Bus, Courier, Other state car

COLLECTOR: H. Richmond DATE 5/15/91 TIME 1430 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER Emer. Leaps  
 (circle one)

FIELD ANALYSES

pH 400 \_\_\_\_\_ Spec. Cond. 94 \_\_\_\_\_ at 25°C  
 Temp. 10 \_\_\_\_\_ °C Odor none  
 Appearance clear Taste NA  
 Field Analysis By: \_\_\_\_\_

Owner Robinson well  
 Location or site Ross Road, Durham  
 Description of sampling point Spigot at house - domestic well  
 Sampling Method pump Sample Interval unknown  
 (pump, bailer, etc.)  
 Remarks pumped well 10 minutes prior to sampling -  
 (pumping time, air temp, etc.)

LABORATORY ANALYSES

BOD <sub>5</sub> 31D	mg/l
COD High 340	mg/l
COD Low 335	mg/l
Coliform:MF Fecal 31616	/100ml
Coliform:MF Total 31504	/100ml
IOC 680	mg/l
Turbidity 76	NTU
pH 403	units
Alkalinity to pH 4.5 410	mg/l
Alkalinity to pH 8.3 415	mg/l
Carbonate 445	mg/l
Bicarbonate 440	mg/l
X Arsenic:Total 1002	ug/l
Carbon dioxide 405	mg/l
Chloride 940	mg/l
Chromium:Hex 1032	ug/l
Color:True 80	Pt-Co
Cyanide 720	mg/l

Diss. Solids 70300	mg/l
Fluoride 961	mg/l
Hardness:Total 900	mg/l
Hardness (non-carb) 902	mg/l
Phenols 32730	ug/l
Specific Cond. 95	uMhos/cm <sup>2</sup>
Sulfate 945	mg/l
Sulfide 746	mg/l
NH <sub>3</sub> as N 610	mg/l
TKN as N 625	mg/l
NO <sub>2</sub> + NO <sub>3</sub> as N 630	mg/l
P:Total as P 665	mg/l

X Ag - Silver 1077	ug/l
X Al - Aluminum 1105	ug/l
X Ba - Barium 1007	ug/l
X Ca - Calcium 918	mg/l
X Cd - Cadmium 1027	ug/l
X Chromium:Total 1034	ug/l
X Cu - Copper 1042	ug/l
X Fe - Iron 1045	ug/l
Hg - Mercury 71900	ug/l
K - Potassium 937	mg/l
X Mg - Magnesium 927	mg/l
X Mn - Manganese 1055	ug/l
X Ni - Nickel 1067	ug/l
X Pb - Lead 1051	ug/l
X Se - Selenium 1147	ug/l
X Zn - Zinc 1092	ug/l

Organochlorine Pesticides
Organophosphorus Pesticides
Acid Herbicides
X Base / Neutral Extractable Organics
Acid Extractable Organics
X Purgeable Organics (VOA bottle)
1,2 - Dibromoethane (EDB)
S, V

Lab Comments: \_\_\_\_\_



N.C. DEPARTMENT OF ENVIRONMENT, HEALTH,  
AND NATURAL RESOURCES

Division of Environmental Management

Chemistry Laboratory

4405 Reedy Creek Road

Raleigh, N.C. 27607

FAX: (919) 733-6241

FAX TO: Jay Zimmerman

FAX NUMBER: 733 - 7072

FROM: Diane Allen DEM/Chemistry Lab. PHONE: (919) 733-3908

NO. OF PAGES INCLUDING THIS SHEET 4

COMMENTS: Here is a copy of the semi-volatiles  
report. All that's left is metals. I'll contact  
you as soon as I receive them

Thanks

P.02/04

37072

TO

MAY-21-1991 12:04 FROM DEM CHEMISTRY LABORATORY

COUNTY Durham  
QUAD NO. I42 SERIAL NO. \_\_\_\_\_  
LAT. \_\_\_\_\_ LONG. \_\_\_\_\_

N.C. DEPARTMENT OF NATURAL RESOURCES  
& COMMUNITY DEVELOPMENT  
DEM

LAB NUMBER 8 16410  
DATE RECEIVED 9/05/91 Time 15  
Rec'd by: AMW From: Bus-Courier

GROUNDWATER FIELD/LAB FORM

Report to: ARO, FRO, MRO, RR0, WaRO, WIRO,  
WSRO, Kinston FO Other \_\_\_\_\_

SAMPLE PRIORITY

ROUTINE  EMERGENCY

Other \_\_\_\_\_  
DATA ENTRY BY: \_\_\_\_\_ CK: \_\_\_\_\_  
DATE REPORTED: \_\_\_\_\_

Shipped by: Bus, Courier, Other state car  
COLLECTOR H. Richmond DATE 5/15/91 TIME 1430

PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER Emer. bas  
(circle one)

FIELD ANALYSES

pH<sub>400</sub> \_\_\_\_\_ Spec. Cond.<sub>94</sub> \_\_\_\_\_ at 25°C  
Temp.<sub>10</sub> \_\_\_\_\_ °C Odor none  
Appearance clear Taste NA  
Field Analysis By: \_\_\_\_\_

Owner Robinson well  
Location or site Ross Road, Durham  
Description of sampling point split at house - domestic well  
Sampling Method pump Sample Interval unknown  
(pump, bailer, etc.)  
Remarks pumped well 10 minutes prior to sampling -  
(pumping time, air temp, etc.)

LABORATORY ANALYSES

BOD <sub>5</sub> 310	mg/l
COD High 340	mg/l
COD Low 335	mg/l
Coliform:MF Fecal 31616	/100ml
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Sulfide 745	mg/l
NH <sub>3</sub> as N 810	mg/l
TKN as N 625	mg/l
NO <sub>2</sub> + NO <sub>3</sub> as N 630	mg/l
P:Total as P 865	mg/l

<input checked="" type="checkbox"/> Ag - Silver 1077	ug/l
<input checked="" type="checkbox"/> Al - Aluminum 1105	ug/l
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<input checked="" type="checkbox"/> Cd - Cadmium 1027	ug/l
<input checked="" type="checkbox"/> Chromium:Total 1034	ug/l
<input checked="" type="checkbox"/> Cu - Copper 1042	ug/l
<input checked="" type="checkbox"/> Fe - Iron 1045	ug/l
Hg - Mercury 71000	ug/l
K - Potassium 937	mg/l
<input checked="" type="checkbox"/> Mg - Magnesium 927	mg/l
<input checked="" type="checkbox"/> Mn - Manganese 1055	ug/l
<del>Na - Sodium 900</del>	mg/l
<input checked="" type="checkbox"/> Ni - Nickel 1067	ug/l
<input checked="" type="checkbox"/> Pb - Lead 1051	ug/l
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Organochlorine Pesticides
Organophosphorus Pesticides
Acid Herbicides
<input checked="" type="checkbox"/> Base / Neutral Extractable Organics
Acid Extractable Organics
<input checked="" type="checkbox"/> Purgeable Organics (VOA bottle)
1,2 - Dibromothane (EOB)
<u>S, V</u>

Lab Comments: \_\_\_\_\_

SEMIVOLATILE ORGANICS REPORT - DEM LAB

LAB NUMBER: 1G410

SUPERVISOR RK  
DATE: 5/21/91

REPORTED BY MD

CHECKED BY SM

REVIEWED BY RK

ENTERED BY De 5/21/91  
CHECKED BY \_\_\_\_\_

SAMPLE TYPE: WATER

DILUTION FACTOR: \_\_\_\_\_

CAS NUMBER	TQL	CONC. UG/L
	X 1	
108-95-2	10 PHENOL	U
111-44-4	10 BIS(2-CHLOROETHYL) ETHER	U
95-57-8	10 2-CHLOROPHENOL	U
541-73-1	10 1,3-DICHLOROBENZENE	U
106-46-7	10 1,4-DICHLOROBENZENE	U
100-51-6	20 BENZYL ALCOHOL	U
95-50-1	10 1,2-DICHLOROBENZENE	U
95-48-7	10 2-METHYLPHENOL	U
108-60-1	10 BIS(2-CHLOROISOPROPYL) ETHER	U
106-44-5	10 4-METHYLPHENOL	U
621-64-7	10 N-NITROSO-DI-N-PROPYLAMINE	U
67-72-1	10 HEXACHLOROETHANE	U
98-95-3	10 NITROBENZENE	U
78-59-1	10 ISOPHORONE	U
88-75-5	10 2-NITROPHENOL	U
105-67-9	10 2,4-DIMETHYLPHENOL	U
65-85-0	50 BENZOIC ACID	U
111-91-1	10 BIS(2-CHLOROETHOXY) METHANE	U
120-83-2	10 2,4-DICHLOROPHENOL	U
120-82-1	10 1,2,4-TRICHLOROBENZENE	U
91-20-3	10 NAPHTHALENE	U
106-47-8	20 4-CHLOROANILINE	U
87-68-3	10 HEXACHLOROBUTADIENE	U
59-50-7	20 4-CHLORO-3-METHYLPHENOL	U
91-57-6	10 2-METHYLNAPHTHALENE	U
77-47-4	10 HEXACHLOROCYCLOPENTADIENE	U
88-06-2	10 2,4,6-TRICHLOROPHENOL	U
95-95-4	10 2,4,5-TRICHLOROPHENOL	U
91-58-7	10 2-CHLORONAPHTHALENE	U
88-74-4	50 2-NITROANALINE	U
131-11-3	10 DIMETHYL PHTHALATE	U
208-96-8	10 ACENAPHTHYLENE	U
606-20-2	10 2,6-DINITROTOLUENE	U
99-09-2	50 3-NITROANALINE	U
83-32-9	10 ACENAPHTHENE	U
51-28-5	50 2,4-DINITROPHENOL	U
100-02-7	50 4-NITROPHENOL	U
132-64-9	10 DIBENZOFURAN	U
121-14-2	10 2,4-DINITROTOLUENE	U
84-66-2	10 DIETHYL PHTHALATE	U
7005-72-3	10 4-CHLOROPHENYL PHENYL ETHER	U
86-73-7	10 FLUORENE	U
100-01-6	50 4-NITROANALINE	U
34-52-1	50 4,6-DINITRO-2-METHYL PHENOL	U



North Carolina  
Department of Environment, Health, and Natural Resources  
Division of Environmental Management - Groundwater Section  
Safety and Health Plan  
Preliminary Site Surveys and Investigations

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---

I. Site Characteristics

- A. Common Name: \_\_\_\_\_
- B. Site Identification No.: \_\_\_\_\_
- C. Location and Size: \_\_\_\_\_  
\_\_\_\_\_
- D. Address/Directions: 3033 Ross Rd, Durham, NC Hwy 70 west  
into Durham, (R) on Junction Rd to Ross Rd
- E. Description: Illegal dump site - solvents, heavy metals, cyanide,  
acids, volatile organic compounds

II. Complaint: Sample nearby domestic well for constituents stored  
on adjacent site

III. Potential Safety & Health Threats: (To Workers)

- A. Chemicals: See I.E
- B. Biological Agents: Ticks
- C. Physical/Electrical/Radiological: None anticipated

IV. Remarks/Recommendations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date: 5/15/91

Signature: S Jay Zimmerman

North Carolina  
Department of Environment, Health, and Natural Resources  
Division of Environmental Management - Groundwater Section  
Safety and Health Plan  
Site Survey and Assessment

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I. Site Identification Number: \_\_\_\_\_

II. Chemical Exposure Potential:

A. Measurement/Samples taken: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

B. How data collected: \_\_\_\_\_

\_\_\_\_\_

III. Biological Exposure Potential: \_\_\_\_\_

\_\_\_\_\_

A. Diseases prevalent in area: Unknown

\_\_\_\_\_  
\_\_\_\_\_

B. Name and Organization of source: \_\_\_\_\_

\_\_\_\_\_

C. Address (of source) and phone number: \_\_\_\_\_

\_\_\_\_\_

IV. Physical Injury Potential:

A. \_\_\_\_\_

\_\_\_\_\_

B. \_\_\_\_\_

\_\_\_\_\_

C. \_\_\_\_\_

\_\_\_\_\_

V. Emergency Care Availability:

A. Source: \_\_\_\_\_

North Carolina  
Department of Environment, Health, and Natural Resources  
Division of Environmental Management - Groundwater Section  
**Safety and Health Plan**  
**Drilling and Well Installations**

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I. Site I.D. Number: \_\_\_\_\_

II. Site Workers Pre-Entry Briefing

- A. Tasks To Be Performed
- B. Assignments/Responsibilities
- C. Potential Hazards
  - 1. Chemical:
  - 2. Biological:
  - 3. Physical/Electrical/Radiological:

III. Emergency Procedures

- A. Chemical Releases & Exposures
- B. Accident or Injury
- C. Evacuation Procedures
- D. Evacuation Routes
- E. Re-Assembly/Accountability

IV. Notifications of Groundwater Operations (Contact & Date)

- A. Health Care Providers \_\_\_\_\_  
\_\_\_\_\_
- B. Traffic Control (city, county or state) \_\_\_\_\_  
\_\_\_\_\_
- C. Electrical Power \_\_\_\_\_
- D. Telephone Company \_\_\_\_\_
- E. Public Utilities \_\_\_\_\_

V. Site Control/Exclusion Zones

- A. Pedestrian Traffic \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- B. Vehicular Traffic \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- C. Flammable Materials Exclusion Zone \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

North Carolina  
Department of Environment, Health, and Natural Resources  
Division of Environmental Management - Groundwater Section  
**Safety and Health Plan**  
**Well Monitoring and Sampling**

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I. Site Characteristics

A. Site I.D. Number: \_\_\_\_\_

B. Address/Location: \_\_\_\_\_  
\_\_\_\_\_

C. Description of GW Activity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

D. Potential Safety & Health Threats

1. Chemicals \_\_\_\_\_  
\_\_\_\_\_

2. Biological (Insects & Plants) \_\_\_\_\_  
\_\_\_\_\_

3. Physical Hazards

a. Lifting Requirements \_\_\_\_\_  
\_\_\_\_\_

b. Confined Space Entry \_\_\_\_\_  
\_\_\_\_\_

c. Sampling Accessibility \_\_\_\_\_  
\_\_\_\_\_

d. Remarks/Recommendations

1) Special Tools: \_\_\_\_\_  
\_\_\_\_\_

2) Protective Equipment: \_\_\_\_\_  
\_\_\_\_\_

3) Communication Requirement: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date: \_\_\_\_\_ Signature: \_\_\_\_\_

North Carolina  
Department of Environment, Health, and Natural Resources  
Division of Environmental Management - Groundwater Section  
Safety and Health Plan  
Remediation Activities and Pollution Management

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I. Site Characteristics

A. Site I.D. Number: \_\_\_\_\_

B. Address/Location: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

C. Description of Activity: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

D. Name of Company(ies) Performing Work: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

E. Site Manager/Supervisors: \_\_\_\_\_  
\_\_\_\_\_

F. Safety Plan Used: \_\_\_\_\_  
\_\_\_\_\_

II. Hazard Assessment:

A. Chemical Exposure Potential: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

B. Biological Exposure Potential: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

C. Physical Injury Potential: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

D. Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date: \_\_\_\_\_ Signature: \_\_\_\_\_

North Carolina  
Department of Environment, Health, and Natural Resources  
Division of Environmental Management - Groundwater Section  
Safety and Health Plan  
UST Deactivation/Removal

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I. Site Characteristics

A. Site I.D. Number: \_\_\_\_\_

B. Address/Location: \_\_\_\_\_  
\_\_\_\_\_

C. Description of Activity: \_\_\_\_\_  
\_\_\_\_\_

D. Company(ies) Performing Work: \_\_\_\_\_  
\_\_\_\_\_

E. Site Manager/Supervisor: \_\_\_\_\_  
\_\_\_\_\_

F. Safety Plan Used: \_\_\_\_\_  
\_\_\_\_\_

G. Location of Medical Care: \_\_\_\_\_  
\_\_\_\_\_

H. Site Evacuation Procedures: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

II. Hazard Assessment

A. Release Potential: \_\_\_\_\_  
\_\_\_\_\_

B. Remediation Requirements: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

C. Cave-in Prevention/Shoring: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

D. Confined Space Entry Permits: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

North Carolina  
Department of Environment, Health, and Natural Resources  
Division of Environmental Management - Groundwater Section

Emergency Response

---

I. Site Characteristics

- A. Complete/Review information required by the NC DEM Emergency Report Form.
- B. Review capabilities to respond safely. Groundwater personnel are generally not equipped or trained to visit sites or incidents where toxic materials are released in an unplanned event. In any event, the ultimate consideration is to avoid exposure and remain out of the hazardous zone. Duties of Advising incident commanders must be performed at the Entry Control point. Exposure determinations requiring assessments exceeding the capabilities of GW Response Representatives. Field duties of Groundwater personnel will be limited to delineating the extent of air, water, and surface contamination for future Environmental Assessments.

II. Hazard Assessment:

- A. Emergency conditions could be created by any unexpected or unplanned event. Some considerations are:
  - 1. Vehicle accidents, including tank carriers.
  - 2. Train derailments.
  - 3. Broken Transport Lines.
  - 4. Ruptured Storage Tanks.
  - 5. Fires or explosions involving hazardous substances.
  - 6. Industrial Accidents and Spills.
  - 7. Investigation of unknown odors/smells.
- B. Each event will present unique exposure potential and will require unique control methods. Seminars and workshops will be used to keep GW personnel abreast of required controls.

III. Protective Equipment Requirements

- A. Level D is the uniform of choice.
- B. Escape packs as an option are not recommended for Groundwater personnel.
- C. Selected persons assigned to the Groundwater Section will be equipped and trained with effective PPE and prepared to evaluate unique hazards. Refer requests for intricate assessments to the GW Safety Consultant or other Health, Safety, or Fire professionals for evaluation.

# MEMO

2:00

DATE: 5/15/91

TO: file

SUBJECT: EL

Holloway (70 business)  
3033 Ross Rd Durham, NC

- Report of chemicals behind building

Cd  
Toluene  
Cyanide's  
KOH

} may have been an old plating facility

- declared imminent hazard 5/14/91 by Dr. Levine

- found more unknown material in shed

From: \_\_\_\_\_

TERRY WADDELL 919/222-0621



North Carolina Department of Environment,  
Health, and Natural Resources



Printed on Recycled Paper

# MEMO

DATE: 5/15/91

TO: \_\_\_\_\_

SUBJECT: ER

- apparent dump behind site, may have impacted groundwater

- well behind facility, analyzed water sample, only well in area

{ Linda Robinson 596 3644  
C-48 Canton St

- Terry Waddell contact w/PSW

- pond or lake nearby that

{ VOC's, <sup>All</sup> metals, bacteria  
Cyanides

From: \_\_\_\_\_



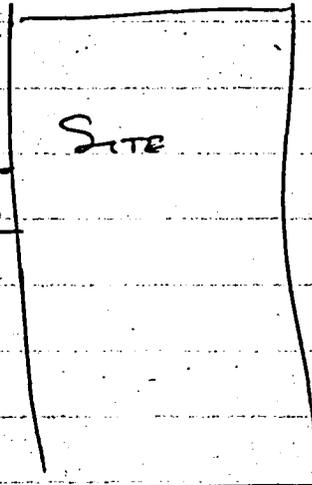
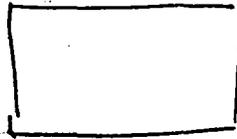
North Carolina Department of Environment,  
Health, and Natural Resources



Printed on Recycled Paper

Ross Rd site

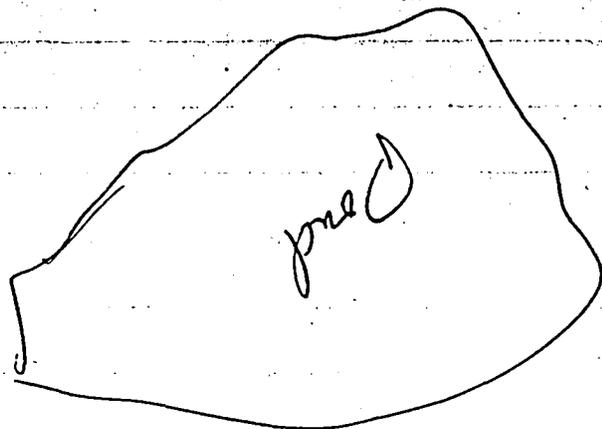
Ross Rd



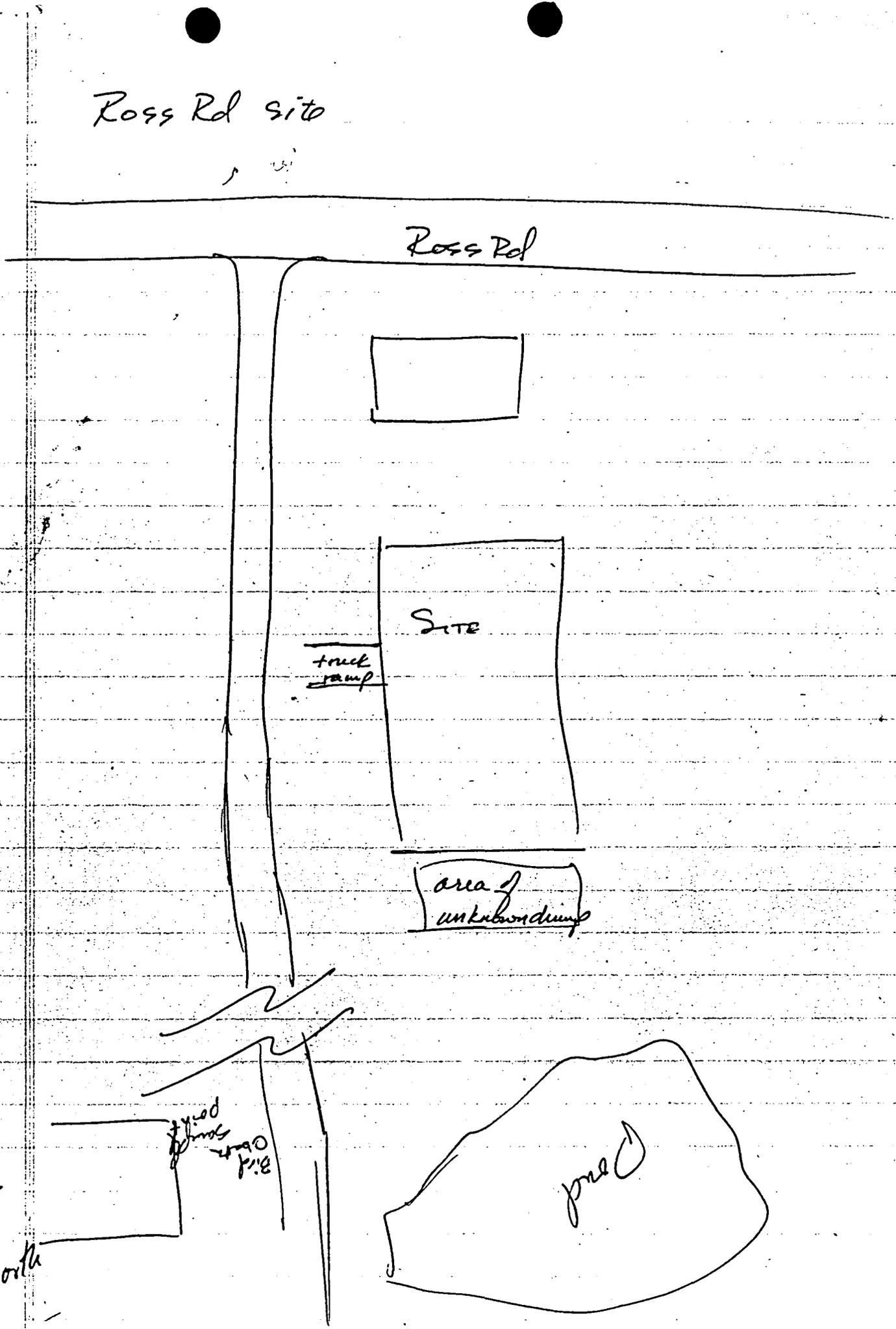
truck  
ramp

area of  
unloading

bird  
over  
south  
point



North



5/15/91

Collected (2) 40ml volatile samples at 1428 hrs

Collected (2) 500 ml disposable samples @ 1430 hrs  
for metals

Collect (1) gal amber glass jug for B/N extractables  
at 1432 hrs

Collected g.w. sample from  
Robinson well

Address:

Mr. Clyde Robinson, Sr.

C-48 Canton St

Durham, NC 27703